VI. Status Report Covering Calendar Yr: 2011 Jurisdiction Name: City of Aberdeen

PLEASE indicate reporting year and your jurisdiction in Line 1, above.

PLEASE refer to the INSTRUCTIONS tab for assistance filling out this table.

NOTE: For clarification on how to answer questions, place cursor over cells with red flags.

NOTE: Please answer all questions.

PLEASE review your work for completeness and accuracy. Save this worksheet as you go!

Que	Question		#	Comments (50 word limit)	Name of Attachment & Page #, <u>if applicable</u>
1.	Attached annual written update of Permittee's Stormwater Management Program (SWMP), including applicable requirements under S5.A.2 and S9?	Y			
2.	Attached a copy of any annexations, incorporations or boundary changes resulting in an increase or decrease in the Permittee's geographic area of permit coverage during the reporting period, and implications for the SWMP as per S9.E.3?	NA		No annexations, incorporations or boundary changes.	
3.	Implemented an ongoing program for gathering, tracking, maintaining, and using information to evaluate SWMP development, implementation and permit compliance and to set priorities? (S5.A.3)	Y			
4.	Began tracking costs or estimated costs of the development and implementation of the SWMP? (<i>Required</i> no later than January 1, 2009, S5.A.3.a)	Y		Staff time tracked on timesheets.	

Que	estion	Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
5.	SWMP includes an education program aimed at residents, businesses, industries, elected officials, policy makers, planning staff and other employees of the Permittee? (<i>Required to begin</i> by February 15, 2009, S5.C.1)	Y			
6.	Distributed appropriate information to target audiences identified in the area served by the MS4? (<i>Required to begin</i> by February 15, 2009, S5.C.1.a)	Y		Mailings, handouts, items with hotline number such as frisbees, grocery bags, pens, bag clips, etc.	Appendix E SWMP
7.	Tracked the types of public education and outreach activities implemented. (<i>Required to begin</i> by February 15, 2009, S5.C.1.c)	Y		Education and outreach schedule.	Appendix E SWMP
7b.	Number of activities implemented:		6		
8.	Measured the understanding and adoption of the targeted behaviors among at least one targeted audience in at least one subject area. (<i>Required to begin</i> by February 15, 2009, S5.C.1.b)	Y		Measured knowledge of public .	Appendix E - Stormwater Community Research Report
9.	Provided opportunities for the public to participate in the decision making processes involving the development, implementation and updates of the Permittee's SWMP? (<i>Required</i> by February 15, 2008, S5.C.2.a)	Y		Solicitation for comments on City website. Attend regular Stream Team meetings, flyers, handouts.	
10.	Developed and implemented a process for public involvement and consideration of public comments on the SWMP? (<i>Required</i> by February 15, 2008, S5.C.2.a)	Υ		Solicitation for comments on City website and at Grays Harbor Stream Team meetings.	Appendix E - SWMP

Que	stion	Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
11.	Made the most current version of the SWMP available to the public. (S5.C.2.b)	Υ		City Website.	Appendix E - SWMP
12.	Posted the SWMP and latest annual report on your website. (S5.C.2.b)	Υ			Appendix E - SWMP
12b.	NOTE website address in <i>Attachment</i> field:			www.aberdeenwa.gov	
13.	Initiated or implemented an ongoing program to detect and remove illicit connections and illegal discharges into the Permittee's MS4? (Required August 19, 2011, S5.C.3)	Y		IDDE Program.	Appendix D - SWMP, also posted to City website
14.	Developed and currently maintain a map of your MS4? (<i>Required</i> by February 16, 2011, S5.C.3.a)	Y		Available to public at City Hall - Engineering Department.	
14b.	Initiated a program to develop and maintain a map of all connections to the MS4 authorized or allowed by the Permittee after the Permit effective date? (S5.C.3.a.ii)	Y		As builts required to be submitted to Engineering.	
15.	Map shows the location of all known municipal separate storm sewer outfalls, receiving waters and structural stormwater BMPs owned, operated, or maintained by the Permittee? (<i>Required</i> by February 16, 2011, S5.C.3.a.i)	Y			
16.	Map shows all storm sewer outfalls with a 24 inch nominal diameter or larger, or an equivalent cross-sectional area for non-pipe systems and includes tributary conveyances, associated drainage areas and land use? (Required by February 16, 2011, S5.C.3.a.i)	Y			

Question		Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, <u>if applicable</u>
17.	Map shows geographic areas served by the Permittee's MS4 that do not discharge stormwater to surface waters? (<i>Required</i> by February 16, 2011, S5.C.3.a.iii)	Y		All geographic areas served by the Permittee's MS4 discharge stormwater to surface waters.	
18.	Map has been made available upon request? (S5.C.3.a.iv)	Y		Available at City Hall - Engineering.	
19.	Developed and implemented regulatory actions necessary to effectively prohibit non-stormwater, illicit discharges into the Permittee's MS4? (<i>Required</i> by August 15, 2009, S5.C.3.b)	Y		IDDE Ordinance.	Appendix D - SWMP
20.	Developed and implemented an ongoing program to detect and address non-stormwater illicit discharges, including spills, and illicit connections into the Permittee's MS4? (<i>Required</i> by August 19, 2011, S5.C.3.c)	Y		Illicit discharge tracking forms and SOP.	Appendix D - SWMP
21.	Developed procedures for locating priority areas likely to have illicit discharges, including at a minimum: evaluating land uses and associated business/industrial activities present; areas where complaints have been registered in the past; and areas with storage of large quantities of materials that could result in illicit discharges, including spills? (<i>Required</i> by August 19, 2011, S5.C.3.c.i)	Y		Outfall Reconaissance at least twice annually.	Appendix D - SWMP

Que	estion	Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
22.	Implemented field assessment activities, including visual inspection of priority outfalls identified during dry weather, and for the purposes of verifying outfall locations, identifying previously unknown outfalls, and detecting illicit discharges. (<i>Required</i> by August 19, 2011, S5.C.3.c.ii)	Y			Appendix D - SWMP
23.	Prioritized receiving waters for visual inspection? (<i>Required</i> by February 16, 2010, S5.C.3.c.ii)	Υ		Annual inspection of all receiving waters at every outfall.	Appendix D - SWMP
24.	Conducted field assessments for three high priority water bodies? (<i>Required</i> by February 16, 2011, S5.C.3.c.ii)	Y			Appendix D - SWMP
25.	Conducted field assessments on at least one high priority water body? (<i>Required</i> annually after February 16, 2011, S5.C.3.c.ii)	Y		Outfall Reconaissance.	Appendix D - SWMP
26.	Developed and implemented procedures for characterizing the nature of, and potential public or environmental threat posed by, any illicit discharges found by or reported to the Permittee? (<i>Required</i> by August 19, 2011, S5.C.3.c.iii)	Y			Appendix D - SWMP
27.	Developed and implemented procedures for tracing the source of an illicit discharge; including visual inspections, and when necessary, opening manholes, using mobile cameras, collecting and analyzing water samples, and/or other detailed inspection procedures? (<i>Required</i> by August 19, 2011, S5.C.3.c.iv)	Y			Appendix D - SWMP

Que	Question		#	Comments (50 word limit)	Name of Attachment &
		NA			Page #, <u>if applicable</u>
28.	Developed and implemented procedures for removing the source of the discharge, including notification of appropriate authorities; notification of the property owner; technical assistance for eliminating the discharge; follow-up inspections; and escalating enforcement and legal actions if the discharge is not eliminated? (<i>Required</i> by August 19, 2011, S5.C.3.c.v.)	Y			Appendix D - SWMP
29.	Informed public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste? (<i>Required</i> by August 19, 2011, S5.C.3.d)	Y		Staff training on IDDE DVD, CESCL trainings.	
30.	Distributed appropriate information to target audiences identified pursuant to S5.C.1? (<i>Required</i> by August 19, 2011, S5.C.3.d.i)	Y		Flyers, handouts, staff training.	Appendix E - SWMP
31.	Publicized a hotline or other local telephone number for public reporting of spills and other illicit discharges? (<i>Required</i> by February 15, 2009, S5.C.3.d.ii)	Y			
31b.	Number of hotline calls received:		1		
31c.	Number of follow-up actions taken in response to calls:		1		
32	Maintained a hotline or other reporting number for public reporting of illicit discharges, including spills? (<i>Required</i> by February 15, 2009, S5.C.3.d.ii)	Y			
32b.	NOTE hotline number in <i>Comments</i> field	Υ		360-537-3393.	
33	Tracked the number of illicit discharges, including spills, identified? (<i>Required</i> by August 19, 2011, S5.C.3.e)	Y		2.11.17.2011 was determined to be discarded fish parts, not a fish kill.	

Que	stion	Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
33h	Number of illicit discharges identified:		1		
34	Tracked the number of inspections made for illicit connections? (<i>Required</i> by August 19, 2011, S5.C.3.e)	Y			
34b.	Number of inspections:		2		
35	Received feedback from IDDE public education efforts? (<i>Required</i> by August 19, 2011, S5.C.3.e)	N		Have received no written feedback regarding education & outreach. Received 1 negative phone call asking why we were wasting money on something so stupid regarding the Splash Festival Outreach.	
	Attached report on IDDE public education efforts? (<i>Required</i> by August 19, 2011, S5.C.3.d, S5.C.3.e)	Y			Appendix E - SWMP
	Municipal field staff responsible for identification, investigation, termination, cleanup, and reporting of illicit discharges, improper disposal and illicit connections are trained to conduct these activities? (<i>Required</i> by August 15, 2009, S5.C.3.f.i)	Y		Street Department - all staff have been trained on IDDE. Street Department supervisors are responsible for taking the information and doing the required paperwork and assigning personnel to the cleanup effort.	
37b.	Number of trainings provided:		1		
	Number of staff trained:		10		
38	Provided follow-up training as needed to address changes in procedures, techniques or requirements? (<i>Required</i> by August 15, 2009, S5.C.3.f.i)	Y		Annual training on IDDE.	
	Number of trainings provided:		1		
38c.	Number of staff trained:		10		

Que	stion	Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
39	Developed and implemented an ongoing training program on the identification of an illicit discharge/connection, and on the proper procedures for reporting and responding to the illicit discharge/ connection for all municipal field staff, which, as part of their normal job responsibilities, might come into contact with or otherwise observe an illicit discharge or illicit connection to the storm sewer system? (<i>Required</i> by February 16, 2010, S5.C.3.f.ii.)			Staff have been trained on IDDE. SOP is to report to supervisor who will in turn be responsible	
39b.	Number of trainings provided:		1		
39c.	Number of staff trained:		10		
40	Developed, implemented and enforced a program to reduce pollutants in stormwater runoff to a regulated small MS4 from new development, redevelopment and construction site activities? (Required by February 16, 2010, S5.C.4)	Y		CESCL training, adopted stormwater management manual 2005, ordinance, plan review, site inspections.	
41	Applied stormwater runoff program to all sites that disturb a land area 1 acre or greater, including projects less than one acre that are part of a larger common plan of the development or sale? (<i>Required</i> by February 16, 2010, S5.C.4)	Y		Only one site greater than 1 acre in 2011. Project has not been completed as of December 31, 2011.	
42	Applied stormwater runoff program to private and public development, including roads? (<i>Required</i> by February 16, 2010, S5.C.4)	Y			

Que	estion	Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, <u>if applicable</u>
43	Applied the Technical Thresholds in Appendix 1 to all sites 1 acre or greater, including projects less than one acre that are part of a larger common plan of the development or sale? (<i>Required</i> by February 16, 2010, S5.C.4)	Y		Adopted 2005 Stormwater management manual for Western Washington.	
44	Adopted and implemented regulatory mechanism (such as an ordinance) necessary to address run-off from new development, redevelopment and construction site activities? (<i>Required</i> by February 16, 2010, S5.C.4.a)	Y			Appendix G - SWMP
45	Retained existing local requirements to apply stormwater controls at smaller sites or at lower thresholds than required pursuant to S5.C.4? (S5.A.4)	Y			
46	The ordinance or other enforceable mechanism includes the minimum requirements, technical thresholds, and definitions in Appendix 1 (or an equivalent approved by Ecology under the NPDES Phase I Municipal Stormwater Permit) for new development, redevelopment, and construction sites? (<i>Required</i> by February 16, 2010, S5.C.4.a.i)	Y			
47	The ordinance or other enforceable mechanism includes exceptions and variance criteria equivalent to those in Appendix 1? (<i>Required</i> by February 16, 2010, S5.C.4.a.i., and Section 6 of Appendix 1)	Y			

Question		Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
48	Were exceptions or variances to the minimum requirements in Appendix 1 granted? (<i>Required</i> by February 16, 2010, S5.C.4.a.i., and Section 6 of Appendix 1)	N			
48h	If so, how many were granted?		0		
49	The ordinance or other enforceable mechanism includes a site planning process and BMP selection and design criteria that, when used to implement the minimum requirements in Appendix 1 (or equivalent approved by Ecology under the Phase I Permit) will protect water quality, reduce the discharge of pollutants to the maximum extent practicable and satisfy the State requirement under Chapter 90.48 RCW to apply all known, available and reasonable methods of prevention, control and treatment (AKART) prior to discharge? (Required by February 16, 2010, S5.C.4.a.ii)	Y		Stormwater ordinance Stormwater plan review.	
49b.	Cite documentation to meet this requirement in <i>Attachment</i> field:	У			Appendix G - SWMP Appendix F - SWMP
50	The ordinance or other enforceable mechanism provides the legal authority, through the approval process for new development, to inspect private stormwater facilities that discharge to the Permittee's MS4? (<i>Required</i> by February 16, 2010, S5.C.4.a.iii)	Y			Appendix G - SWMP

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page #, <u>if applicable</u>
51	The ordinance or other enforceable mechanism allows non-structural preventive actions and source reduction approaches such as Low Impact Development (LID) Techniques to minimize the creation of impervious surfaces and minimize the disturbance of native soils and vegetation? (<i>Required</i> by February 16, 2010, S5.C.4.a.iv)	Y		Appendix B - SWMP
52	If the ordinance or regulatory mechanism allows construction sites to apply the Erosivity Waiver in Appendix 1, Minimum Requirement #2, does it include appropriate, escalating enforcement sanctions for construction sites that provide notice to the Permittee of their intention to apply the waiver but do not meet the requirements (including timeframe restrictions, limits on activities that result in non-stormwater discharges, and implementation of appropriate BMPs to prevent violations of water quality standards) to qualify for the waiver? (If waiver is allowed, the qualification is <i>required</i> by February 16, 2010, S5.C.4.a.v)	NA	Does not allow Erosivity Waiver.	

Que	stion	Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
53	Developed and implemented a permitting process to address runoff from new development, redevelopment and construction site activities with plan review, inspection, and enforcement capability? (Required by February 16, 2010, S5.C.4.b)	Y			Section 5 - SWMP
54	Applied permitting process to all sites that disturb a land area 1 acre or greater, including projects less than one acre that are part of a larger common plan of the development or sale? (<i>Required</i> by February 16, 2010, S5.C.4.b)	Y			
55	Reviewed Stormwater Site Plans for new development and redevelopment projects? (<i>Required</i> by February 16, 2010, S5.C.4.b.i)	Y		Only one project greater than one acre.	Appendix F - SWMP
55b.	Number of site plans reviewed during the reporting period:		15		
56	Inspected, prior to clearing and construction, all known development sites that have a high potential for sediment transport as determined through plan review based on definitions and requirements in Appendix 7 Determining Construction Site Sediment Potential? (Required by February 16, 2010, S5.C.4.b.ii)	Y		Sites were inspected prior to clearing, however there were none greater than one acre that required an inspection report to be filed.	
56b.	Number of qualifying sites inspected prior to clearing and construction during the reporting period:		0		

Que	stion	Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
57	Inspected construction-phase stormwater controls at all known permitted development sites during construction to verify proper installation and maintenance of required erosion and sediment controls? (<i>Required</i> by February 16, 2010, S5.C.4.b.iii)	Y		Only one site greater than one acre.	
57b.	Number of sites inspected during the construction phase for the reporting period:		1		
58	Enforced as necessary based on the inspection at new development and redevelopment projects? (<i>Required</i> by February 16, 2010, S5.C.4.b.iii)	Y			
58b.	Number of enforcement actions taken during the reporting period:		0		
59	Inspected qualifying permitted development sites upon completion of construction and prior to final approval or occupancy to ensure proper installation of permanent stormwater controls such as stormwater facilities and structural BMPs? (<i>Required</i> by February 16, 2010, S5.C.4.b.iv and v)	Y		Project not complete in 2011. Inspection will be done at completion in 2012	
59b.	Number of qualifying sites known during the reporting period:		1		
59c.	Number of qualifying sites inspected during the reporting period:		0	Project not complete in 2011. Inspection will be done at completion in 2012	
60	Verified a maintenance plan is completed and responsibility for maintenance is assigned for qualifying projects? (<i>Required</i> by February 16, 2010, S5.C.4.b.iv)	N		Maintenance plan has not been completed, project not yet complete.	

Que	stion	Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, <u>if applicable</u>
61	Enforced regulations as necessary based on the inspection? (<i>Required</i> by February 16, 2010, S5.C.4.b.iv)	Y			
61b.	Number of enforcement actions taken during the reporting period:		0		
62	Developed and implemented an enforcement strategy to respond to issues of non-compliance with the regulations for qualifying projects? (<i>Required</i> by February 16, 2010, S5.C.4.b.vi)	Y			
63	Did the Permittee choose to allow construction sites to apply the Erosivity Waiver in Appendix 1, Minimum Requirement #2? (S5.C.4.b.vii)	N			
63b.	If yes, how many waivers were allowed?		0		
64	Developed and implemented a long-term operation and maintenance (O&M) program for post-construction stormwater facilities and BMPs? (<i>Required</i> by February 16, 2010, S5.C.4.c)	Y		Stormwater Ordinance.	Appendix G - SWMP
65	Adopted an ordinance or other regulatory mechanism that clearly identifies the party responsible for maintenance, requires inspection of facilities and establishes enforcement procedures? (<i>Required</i> by February 16, 2010, S5.C.4.c.i)	Y			
66	Inspected post-construction stormwater controls, including structural BMPs, at new development and redevelopment projects? (<i>Required</i> by February 16, 2010, S5.C.4.c)	Y		No qualifying sites in 2011.	

Que	stion	Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
66b.	Number of sites inspected during the reporting period:		0		
	Number of structural BMPs inspected during the reporting period:		0		
	Number of enforcement actions taken during the reporting period:		0		
67	Established maintenance standards that are as protective, or more protective, of facility function as those specified in Chapter 4 of Volume V of the 2005 Stormwater Management Manual for Western Washington? (<i>Required</i> by February 16, 2010, S5.C.4.c.ii)	Y			
68	Performed timely maintenance as per S5.C.4.c.ii? (<i>Required</i> by February 16, 2010, S5.C.4.c.ii)	NA		No maintenance required.	
68b.	Attached documentation of any maintenance delays. (<i>Required</i> by February 16, 2010, S5.C.4.c.ii)	Y			
69	Established program to annually inspect all stormwater treatment and flow control facilities (other than catch basins) permitted by the Permittee according to S5.C.4.b. unless there are maintenance records to justify a different frequency? (<i>Required</i> by February 16, 2010, S5.C.4.c.iii)	Y		Inspections of all stormwater treatment and flow control facilities are done annually at the minimum.	Appendix H - SWMP
70	If using reduced inspection frequency, Attached documentation as per S5.C.4.c.iii? (Required by February 16, 2010, S5.C.4.c.iii)	Y			

Que	estion	Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
71	Inspected all new stormwater treatment and flow control facilities owned or operated, including catch basins, for new residential developments that are a part of a larger common plan of development or sale, every 6 months during the period of heaviest house construction (i.e., 1 to 2 years following subdivision approval) to identify maintenance needs and enforce compliance with maintenance standards as needed? (<i>Required</i> by February 16, 2010, S5.C.4.c.iv)	Y		No qualifying facilities.	
71b.	Number of facilities inspected during the reporting period:		0	No new residential developments.	
72	Implemented a procedure for keeping records of inspections and enforcement actions by staff, including inspection reports, warning letters, notices of violations, other enforcement records, maintenance inspections and maintenance activities? (<i>Required</i> by February 16, 2010, S5.C.4.d)	Y			
73	Provided copies of the Notice of Intent for Construction Activity and Notice of Intent for Industrial Activity to representatives of proposed new development and redevelopment? (S5.C.4.e)	Y		No qualifying activities, NOI for construction and industrial activities are available at City Hall with development permit information.	

Que	stion	Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, <u>if applicable</u>
74	All staff responsible for implementing the program to control stormwater runoff from new development, redevelopment, and construction sites, including permitting, plan review, construction site inspections, and enforcement were trained to conduct these activities? (<i>Required</i> by February 16, 2010, S5.C.4.f)	Y		Larry Bledsoe, Rick Sangder, Jeff Springer.	
	Number of trainings provided:		3		
	Number of staff trained: Developed and implemented an operations and maintenance (O&M) program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations? (<i>Required</i> by February 16, 2010, S5.C.5)	Y	3	Implementing a more formal Quarterly training for all staff in Public Works.	
76	Adopted maintenance standards as protective, or more protective, of facility function as those specified in Chapter 4 of Volume V of the 2005 Stormwater Management Manual for Western Washington? (Required by February 16, 2010, S5.C.5.a)	Y		SWPPP for all City maintenance yards that do not require coverage under Industrial Stormwater Permit.	
77	Performed timely maintenance as per S5.C.5.a.ii? (Required by February 16, 2010, S5.C.5.a.ii)	NA		No maintenance required	
77b.	Attached documentation of any maintenance delays. (<i>Required</i> by February 16, 2010, S5.C.5.a.ii)	NA			

Que	stion	Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
78	Established a program to annually inspect and maintained all stormwater treatment and flow control facilities (other than catch basins)? (<i>Required</i> by February 16, 2010, S5.C.5.c.iii)	Y		Formal inspection annually during the summer maintenance. Drive by inspection after all storms of intensity greater than two year - 24 hour.	Appendix H - SWMP
78b.	Number of known facilities:		5		
78c.	Number of facilities inspected during the reporting period:		5		
79	If using reduced inspection frequency, Attached documentation as per S5.C.5.a.ii? (Required by February 16, 2010, S5.C.5.b)	NA		No reduced frequency.	
80	Conducted spot checks of stormwater facilities after major storms? (<i>Required</i> by February 16, 2010, S5.C.5.c)	Y			Appendix H - SWMP
80b.	Number of known facilities:		5		
80c.	Number of facilities inspected during the reporting period:		5		
81	Inspected municipally owned or operated catch basins at least once before the end of the Permit term? (<i>Required to begin</i> by February 16, 2010, S5.C.5.d)			Inspect and clean continuously; ongoing program.	
81b.	Number of known catch basins:		2813		
	Number of inspections:		2813		
81d.	Number of catch basins cleaned:		2813		

Que	estion	Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
82	Established and implemented practices to reduce stormwater impacts associated with runoff from streets, parking lots, roads or highways owned or maintained by the Permittee, and road maintenance activities conducted by the Permittee? (Required by February 16, 2010, S5.C.5.f)	Y		Street sweeping.	O&M Manual
83	Established and implemented policies and procedures to reduce pollutants in discharges from all lands owned or maintained by the Permittee and subject to this Permit, including but not limited to: parks, open space, road right-of-way, maintenance yards, and stormwater treatment and flow control facilities? (Required by February 16, 2010, S5.C.5.g)	Y			
84	Implemented an operations and maintenance (O&M) program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations? (Required by February 16, 2010, S5.C.5.h.)	Y			
_	Number of trainings provided:		2		
84c.	Number of staff trained:		10		

Que	estion	Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, <u>if applicable</u>
85	Implemented a Stormwater Pollution Prevention Plan (SWPPP) for all heavy equipment maintenance or storage yards, and material storage facilities owned or operated by the Permittee in areas subject to this Permit that are not required to have coverage under the Industrial Stormwater General Permit? (Required by February 16, 2010, S5.C.5.i)	Y			
86	Is there an approved Total Maximum Daily Load (TMDL) applicable to stormwater discharges from a MS4s owned or operated by the Permittee?	NA			
87	Complied with the specific requirements identified in Appendix 2? (S7.A)	N/A			
88	Attached status report of TMDL implementation? (S7.A)	N/A			
89	Where monitoring was required in Appendix 2, did you conduct the monitoring according to an approved Quality Assurance Project Plan? (S7.A)	NA			
90	Took appropriate action to correct or minimize discharges into or from the MS4 which may constitute a threat to human health, welfare, or the environment? (G3)	NA			
90b.	Attached a summary of the status of implementation of any actions taken pursuant to S4.F and the status of any montioring, assessment, or evaluation efforts conducted during the reporting period? (S4.F.3.d)	NA			

Que	estion	Y/N/ NA	#	Comments (50 word limit)	Name of Attachment & Page #, if applicable
91	Notified Ecology of the failure to comply with the permit terms and conditions within 30 days of becoming aware of the non-compliance? (G20)	N		G20 Compliance plan has been sent	
92	Notified Ecology immediately in cases where the Permittee becomes aware of a discharge from the Permittees MS4 which may cause or contribute to an imminent threat to human health or the environment? (G3)	N/A			
93	Attached a summary of identified barriers to the use of low impact development (LID) and measures to address the barriers (Required to be submitted by March 31, 2011, S9.E.4.a)	Y			
94	Attached a report describing LID practices currently available and that can be reasonably implemented, potential or planned non-structural actions and LID techniques to prevent stormwater impacts, goals and metrics to identify, promote, measure LID; and schedules to require and implement non-structureal and LID techniques on a broader scale (Required to be submitted by March 31, 2011, S9.E.4.b)	Y		Ordinance	Appendix B - SWMP



City of Aberdeen Stormwater Management Program (SWMP)

For Calendar Year 2011

Prepared pursuant to the Western Washington Phase II Municipal Stormwater Permit

 $\mathbf{B}\mathbf{y}$

Larry Bledsoe, P.E.

Public Works Director

March 30, 2012

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Section 1 Introduction

1.1 The purpose of the Stormwater Management Program Document

This document constitutes the City of Aberdeen 2011 Stormwater Management Program (SWMP) as required under condition S5 of the Western Washington Phase II Municipal stormwater permit (the Permit). The purpose of this document is to detail actions that the City of Aberdeen plans to take between February 16th, 2011 and February 16th, 2012to maintain compliance with conditions in the Permit. This SWMP will be attached to the Annual Compliance Report for the Permit for 2011, which is due at Ecology on March 31, 2012.

1.2 The NPDES Program

The National Pollutant Discharge Elimination System (NPDES) is a program created under the Federal Clean Water Act with the intent of protecting and restoring water quality in lakes and streams so that they can support "beneficial uses" such as fishing and swimming. Governmental and private entities wishing to discharge water or wastewater to surface waters regulated by the Federal Government (Waters of the US) must obtain permits and comply with certain conditions or face fines and other penalties. NPDES permits have been written for discharges from construction sites, concentrated animal feeding operations, industrial activities, publicly owned wastewater treatment plants, and municipal stormwater systems. In Washington State, the US Environmental Protection Agency has delegated the authority over NPDES permits to the Washington State Department of Ecology (Ecology). Ecology has issued several general permits for discharges from stormwater systems that apply to municipalities with different sizes of populations and that are located in different regions of the State (Eastern and Western Washington). Phase I refers to municipalities of >100,000, and phase II to those with a population of less than 100,000 according to the 1990 census.

1.3 The Western Washington Phase II Municipal Stormwater Permit

Aberdeen has a population of less than 100,000 and is in Western Washington. Thus our Stormwater program must comply with conditions in the Western Washington Phase II Municipal Stormwater Permit. The Permit was issued on February 16th, 2007, and will remain in effect until February 15th, 2012. A Permit allows municipalities to discharge stormwater from municipal systems into "waters of the state" such as rivers, lakes, and streams, as long as we implement programs to reduce pollutants in stormwater to the "maximum extent possible" by conducting programs and activities in the following program areas:

- · Public Education and Outreach
- · Public Involvement
- · Illicit Discharge Detection and Elimination
- · Construction and Post –construction runoff controls
- · Pollution Prevention and Municipal Operations and Maintenance
- · Monitoring

The SWMP must be prepared and submitted annually and must contain the planned actions and activities that will be used in the following year to gain compliance with the permit. In addition, the Permit requires the City to submit an Annual Compliance Report by March 31st of each year that details actions taken in the previous year to achieve compliance. The full text for the permit is available at: http://www.aberdeenwa.gov or can be viewed upon request by contacting the City of Aberdeen at 360-537-3393.

1.4 Implementation Timing

The Permit is valid for 5 years, from February 16th, 2007 to February 15th, 2012, and allows for phased implementation of stormwater management programs and actions. Deadlines for developing and implementing various requirements of the management program are detailed in the actual permit. The Annual Compliance Report for activities conducted in 2011 is due March 31st, 2012.

1.5 City Coordination and Responsibilities

Compliance with the Permit will require coordination and documentation of activities in several City departments. The Public Works Department Surface Water Utility staff will coordinate City efforts, and will meet with staff from other departments regularly to insure that on-going and planned activities meet Permit requirements. It is anticipated that activities required for Permit compliance will be carried out largely by the Public Works, Planning, Parks, City Attorney, and Finance departments. The Fire, Building and Police departments may be involved to a lesser extent.

1.6 The Surface Water Management Utility – Other Activities

This SWMP details activities that are planned and that fall under the purview of the Permit. Stormwater management is one part of the City's overall surface water management strategy. The Surface Water Utility conducts a suite of programs that reduce flooding and protect and improve water quality. Although not directly required, flood reduction efforts can often further stormwater management goals. For details on Surface Water Utility activities not addressed in this SWWP contact the Public Works Department at 360-537-3241.

1.7 The Permit as Document Map

The remainder of this document details the required elements of the SWMP as noted in condition S5C. of the permit, and notes current and planned compliance activities. The subsection of condition S5c. associated with each section is noted in parentheses in the section on Permit Requirements.

Section 2 Public Education and Outreach

This section summarizes the Phase II permit requirements for public education and outreach, describes current activities the City has underway for public education and outreach, and presents activities the City plans to undertake to bring its current program in compliance with the Phase II permit requirements and scheduled efforts through the end of the permit cycle.

2.1 Permit Requirements

Section S5.C.1 of the Phase II permit requires the City to provide an education and outreach program for the area served by its MS4 no later than **February 15, 2009**. The purpose of this program is to reduce or eliminate behaviors and practices that cause or contribute to adverse stormwater impacts. The program may target the following audiences and subject areas:

- 1) For the general public (including homeowners, landscapers and property managers):
 - · General impacts of stormwater flows into surface waters.
 - · Impacts from impervious surfaces.
 - Source control Best Management Practices (BMPs) and environmentally responsible actions in the areas of pet waste, vehicle maintenance, landscaping and critical area buffers.
 - · Yard care techniques that protect water quality.
 - · BMPs for use and storage of pesticides and fertilizers.
 - · BMPs for carpet cleaning and auto repair and maintenance.
 - · Stormwater pond maintenance.
- 2) For businesses (including home-based and mobile businesses):
 - BMPs for use and storage of hazardous materials, including (but not limited to) automotive chemicals, hazardous cleaning supplies, and carwash soaps.
 - · Impacts of illicit discharges and how to report them
- 3) For engineers, contractors, developers, and City personnel:
 - · Technical standards for stormwater site and erosion control plans.
 - Well-organized development guidelines.
 - · Stormwater treatment and flow control BMPs.

The Phase II permit also requires the City to measure the understanding and adoption of targeted behaviors among the targeted audiences. The resulting measurements are to be used to direct education and outreach resources most effectively and evaluate changes in targeted behaviors. Lastly, this section of the Phase II permit requires the City to track and maintain records of public education and outreach activities.

2.2 Current Activities

The City of Aberdeen has focused its education and outreach program inward initially. The responsibility to operate within the restrictions of the phase II permit must be taken seriously by City staff if it is ever to be successful on a broader scale. As the City has moved forward in its education and outreach program we are now more readily able to lead by example. While not neglecting our current emphasis of training

within the City ranks are also putting information into the hands of the citizens through newsletters, handouts, and an increased importance on updating the City stormwater website.

- Training of Street Department maintenance workers on erosion control BMP's and identifying and reporting of illicit discharges.
 - Municipal SWPP DVD Storm Watch
 - SWPP for Construction Sites DVD *Ground Control*
- Stormwater community research report which created a baseline for community stormwater knowledge
- Training of supervisors and lead men from all Public Works Departments as Certified Erosion & Sediment Control Leads
- Maintained a storm water information booth with handouts for children and adults at the main City event of the year "Splash" which is held on the 4th of July on the river front.
 - Distributed 800 Stormwater Brochures
 - Distributed 800 pens with the stormwater logo and spill hotline phone number printed on them.
 - Distributed 500 Frisbees with the stormwater logo and spill hotline phone number printed on them.
 - Distributed 300 re-useable grocery bags with the stormwater logo and spill hotline phone number printed on them.
 - Trout Fishing (500 Trout) w/ hourly prizes to keep people coming back
- Worked on an ongoing stormdrain catch basin marking program that consisted of Placement of approximately 700 round embossed metal "*No Dumping * Drains to River*" markers at locations near schools, high pedestrian traffic areas, downtown corridor, and at representative locations throughout the entire City.
- Chehalis River Watershed Festival Maintained a storm water information booth with handouts for children and adults.
 - Distributed 800 Stormwater Brochures
 - Distributed 300 pens with the stormwater logo and spill hotline phone number printed on them.
 - Distributed 200 re-useable grocery bags with the stormwater logo and spill hotline phone number printed on them.
 - Catch basin scavenger hunt for children and parents.
- The City Staff discuss policies, procedures, and other stormwater requirements with property owners, developers, contractors, and engineers when they approach the City for building or development permits.

2.3 Planned Activities

In order to continue the City of Aberdeen's compliance with the permit requirements, the following public education and outreach activities are planned for completion in 2012:

- Established a system to document public education outreach activities that are scheduled and completed. (Table 2.2)
- Continuance of the stormwater catch basin marking program placing the remaining 300 catch basin buttons marked with "No Dumping * Drains To River"
- Submit a news article for the local newspaper and "Drops of Water" drawing attention to the stormwater buttons
- Training of all Public Works Department maintenance workers on erosion control BMP's and identifying and reporting of illicit discharges.
 - Municipal SWPP DVD Storm Watch

- Municipal SWPP for MS4's DVD *Rain Check*
- SWPP for Construction Sites DVD Ground Control
- Four quarterly mailings of stormwater informational letter with the utility bills.
- Operation & Maintenance training of all Public Works Department maintenance workers on operational BMP's
 - Four quarterly trainings
 - Topics will include:
 - Operational BMP's.
 - SWPPP training for city maintenance facilities.
 - Housekeeping.
- Fourth of July SPLASH festival Stormwater informational booth with interaction and handouts for children and adults at the Log Pavilion.
- Elementary school stormwater education program
 - Teach Aberdeen School District 4th and 5th graders about stormwater.
 - Cooperative effort with Grays Harbor Stream Team.
- Chehalis River Watershed Festival Stormwater informational booth with interaction and handouts for children and adults.
- Update the City of Aberdeen stormwater website to be friendlier to users and have useful stormwater links.

Section 3 Public Involvement and Participation

This section summarizes the Phase II permit requirements for public involvement and participation, describes current activities the City has underway for public involvement and participation, and presents activities the City plans to undertake in the 2012 calendar year to remain compliant with the Phase II permit.

3.1 Permit Requirements

Section S5.C.2 of the Phase II permit requires the City to include ongoing opportunities for public involvement through advisory councils, watershed committees, participation in developing rate structures, stewardship programs, environmental activities, or other similar activities. The City shall develop and implement a process for consideration of public comments on their SWMP. The City is also required to make its SWMP document, annual report, and all other submittals required under the Phase II permit available to the public.

3.2 Current Activities

The City regularly meets at the monthly Grays Harbor Stream Team meeting where they are available to take comments and suggestions relating to the development and implementation of the SWMP. The public is also encouraged to comment through email on the stormwater website. The following is a partial list of public involvement and participation opportunities that have been provided.

- Numerous presentations have been made to the City council about a variety of stormwater issues. Aberdeen is unique in that the City Council consists of 12 members who are elected from 6 wards throughout the City. Due to size and geographic distribution of our City council it is a much broader representation of the citizens of our community than would be found in a typical city. Also at each council meeting there are representatives from two local radio stations and the local newspaper, as a result whatever is reported to the council is often repeated through the news media to the general population.
- The City of Aberdeen has made the 2010 annual permit and SWMP available to the public on its website, inviting citizens to comment.
- The City of Aberdeen attends regular meetings and partners with The Grays Harbor Stream Team where they are available to discuss the progress and implementation of all stormwater issues within the City of Aberdeen.
- The adoption of ordinances on flood management and all facets of stormwater standards and regulations involve a process requiring a detailed study by a council committee followed by three separate readings of the ordinance, a formal public hearing process, and publishing in the newspaper.

3.3 Planned Activities

Public involvement can promote awareness of and foster a sense of responsibility for the health of the affected watersheds. The City of Aberdeen NPDES Phase II SWMP will include ongoing opportunities for public involvement through some or all of the following forums:

The City plans to stay in compliance with the permit conditions by doing the following:

- Continuing existing public hearing procedures and practices.
- Posting the 2011 SWMP and 2011 Annual Report on the City website after it has been submitted and approved by the Washington State Department of Ecology.

- Presentation of the current status of the SWMP to the City council as needed.
 Fry Creek Cleanup Cooperative effort with Grays Harbor Stream Team.
 Solicit comments and suggestions at the outreach activities planned for 2012 stated in the Education & Outreach section above.

Section 4 Illicit Discharge Detection and Elimination

This section summarizes the Phase II permit requirements for illicit discharge detection and elimination (IDDE), describes current activities the City has underway, and presents activities the City plans to undertake to keep its current program in compliance with the Phase II permit requirements and scheduled efforts through the end of the permit cycle.

4.1 Permit Requirements

The City is required by Section S5.C.3 of the permit to implement an ongoing program to detect and remove illicit connections, discharges, and improper disposal, including any spills not under the purview of another responding authority, into the MS4 owned or operated by the City. The goals and requirements of the City's IDDE program are as follows:

Municipal Storm Sewer Map - Geographic Information System (GIS) Mapping

The City shall design a GIS mapping program to support the IDDE efforts. This GIS effort is intended to identify the City's existing stormwater system and all connections to the City's MS4 that were authorized or allowed by the City after the date of this permit. The City shall maintain and keep the maps current, and, when requested, provide information to other municipalities sharing common drainage areas. These maps will include the following information:

- All separate storm sewer outfalls 24 inches or larger including non-pipe outfalls with an equivalent cross-sectional area to all outfalls greater than 24 inches
- Receiving waters
- Structural stormwater BMPS owned or maintained by the City
- Conveyance structures and systems for all required outfalls (indicate type, material, and size where known)
- Associated outfall sub-basin drainage areas
- Land use
- Fully described mapping standards

Ordinances

The City shall prohibit, through ordinances, non-stormwater discharges into the MS4 and implement escalating enforcement procedures and actions. Non-stormwater discharges will prohibit the following categories unless stated conditions in the permit are met:

- Discharges from potable water sources
- Discharges from lawn watering and other irrigation runoff
- De-chlorinated swimming pool discharges
- Street and sidewalk wash water

IDDE Program Goals

The City shall develop and implement an ongoing IDDE Program to detect and address non-stormwater discharges, spills, illicit connections and illegal dumping into the City's MS4 with the following goals:

- Develop procedures for locating priority areas likely to have illicit discharges
- Establish field assessment protocols designed to detect and remove illicit discharges.

- Develop procedures for characterizing discharge and the potential threat from such discharges.
- Implement procedures for tracing and removing the source of the discharge.
- Develop procedures for IDDE program evaluation and assessment, including tracking inspections, costs associated with the Illicit Discharge Program, and feedback from public education efforts.
- Ensure that public education of the hazards associated with illegal discharges and improper disposal of waste is coordinated with the Public Education component of the Permit Section S5.C.2 and the appropriate information is distributed to target audiences.

Hotline

The City shall establish a hotline or other local number for public reporting of spills and other illicit discharges. A record of all calls received, and the follow-up actions taken, shall to be kept and summarized for the annual report. This hotline number is 360-537-3393.

Training

The City shall provide appropriate training for municipal field staff on the identification and reporting of illicit discharges into MS4s. This portion of the IDDE program will include the following:

- The City shall ensure that all field staff currently responsible for identification, investigation, termination, cleanup, and reporting illicit discharges are currently trained to conduct these activities.
- The City shall implement of an ongoing training program for all municipal field staff that might, as part of their normal job, come into contact with or observe an illicit discharge.
- The City shall document and maintain records of the training provided and the staff trained, and include this information in the annual report.

4.2 Current Activities

The City has taken the following actions to gain compliance with the NPDES phase II with regards to the IDDE program. These include:

- A digital map of the City's stormwater system overlaid on aerial photographs with a
 corresponding base map has been completed. The completed mapping includes all elements
 required in the Permit with the exception of mapping private connections to the system. All
 improvements to the stormwater system are documented and incorporated into the GIS
 mapping system.
- The City has adopted an ordinance which addresses permit requirements.
- The City has adopted the publication "Guide to Eliminating Illicit Discharges" published by the EPA as its guidelines.
- The City has purchased several DVD training videos for staff as part of the ongoing training aspect of the IDDE program.
- Every catch basin within the City has been cleaned and inspected within the last year.
- New Aerial photographs have been taken and analysis of impervious areas has begun with the intent of locating priority areas likely to have illicit discharges. Areas identified as having a high probability will be visually inspected at a representative location.
- An outfall reconnaissance inventory was conducted on all known outfalls within the City to determine if there was any evidence of an illegal discharge.
- The City has written a SOP for dealing with and illicit discharges.

- The City has developed and implemented a formal reporting and tracking system for illicit discharges reported or identified together with any corrective action taken that follows the SOP for reporting of illicit discharges.
- The City has adopted and implemented an ongoing annual training protocol for its employees to identify illicit discharges.
- The Stormwater Hotline number has been distributed to the citizens of Aberdeen through Festivals, flyers, mailings, handouts and giveaways such as; Frisbees, reusable grocery bags, flashlights and bag clips. The number is also published to the stormwater website.

4.3 Planned Activities

- Continue all current activities.
- Mapping will be updated as changes occur.
- The hotline number will be listed in the phone book.
- The downtown corridor which consists of mostly impervious areas will be visually inspected to determine the priority areas likely to have illicit discharges.
- Start a carwash program aimed at reducing discharges to the stormwater system.

Section 5 Controlling Runoff from New Development, Redevelopment, and Construction Sites

This section summarizes the Phase II permit requirements for runoff from new development, redevelopment, and construction sites; describes current activities the City has underway; planned activities needed within the permit cycle; and presents activities the City plans to undertake to keep its current program in compliance with the Phase II permit requirements.

5.1 Permit Requirements

Section S5.C.4 of the Phase II permit requires the City to develop, implement, and enforce a program to reduce pollutants in stormwater control runoff to MS4s from new development, redevelopment, and construction site activities. This program must apply to both public and private projects, including roads, and address all site-related pollutant sources. The program must also include the following goals and requirements for all sites larger than 1 acre and smaller site areas that are part of a larger development

- The program shall include an ordinance or other enforceable mechanism that addresses runoff from new development, redevelopment, and construction site projects with these minimum standards:
 - The minimum requirements, technical thresholds, and definitions in Appendix A of the NPDES Phase II Permit.
 - A site planning process and BMP selection and design criteria that, when used to implement the minimum requirements in Appendix A, will protect water quality and reduce the discharge of pollutants to MEP using AKART prior to discharge. Documentation of this process is required to show how the criteria and requirements will protect water quality, reduce the discharge of pollutants to MEP and satisfy state AKART requirements.
 - Legal authority to inspect private stormwater facilities that discharge to the City's MS4.
 - Provisions to allow for Low Impact Development (LID) techniques, taking into account site conditions, access, and long-term maintenance.
- The City's program shall include a permitting process with plan review and inspection and enforcement capability to meet the above-referenced standards. The program includes:
 - Review of all stormwater site plans
 - Site inspections prior to clearing and construction that have a high potential for sediment transport as determined through plan review
 - Site inspections during construction to ensure temporary erosion and sediment control (TESC) measures are effective
 - Site inspections of permanent stormwater controls and verification that a maintenance plan is completed and responsibility for maintenance is assigned
 - Achieve at least a 95 percent inspection schedule for inspections referenced above
 - An enforcement strategy developed and implemented to respond to issues of noncompliance.
- The City shall provide provisions to verify adequate long-term operation and maintenance of post-construction stormwater facilities and BMPs. These provisions are listed below.
 - Adoption of an ordinance identifying the responsible party for Operation and Maintenance.

- Establish maintenance standards that comply with the permit expectations for water quality.
- Annual inspections of all stormwater treatment and flow control facilities other than catch basins permitted by the City.
- Inspections of all new flow control and water quality treatment facilities, including catch basins, for new residential developments that are a part of a larger common plan of development every 6 months during the period of heaviest house construction (i.e., 1 to 2 years following subdivision approval) to identify maintenance needs and enforce compliance with maintenance standards.
- The City shall implement procedures for keeping records of inspections and enforcement actions by City staff, including inspection reports, warning letters, notices of violations, and other enforcement records; records of maintenance inspections and maintenance activities shall be maintained as well.
- The City shall make available all copies of the Notice of Intent (NOI) for both Construction and Industrial Activities. The City will continue to enforce local ordinances controlling runoff from sites that are also covered by stormwater permits issued by Ecology.
- The City shall verify that all staff responsible for implementing the program to control stormwater runoff from new development, redevelopment, and construction sites, including permitting, plan review, construction site inspections, and enforcement, are trained to conduct those activities. Training shall be documented and records of the training provided and the staff trained shall be maintained.

5.2 Current Activities

The City currently has a program to reduce pollutants in stormwater runoff from new development, redevelopment, and construction activity. The current program applies to both public and private projects. The current compliance activities associated with the above permit requirements include:

- Stormwater ordinance regulating authority within current permit requirements.
- Spot checks of stormwater facilities after major storm events.
- Staff members have been trained in proper construction erosion control practices.
- The City maintains a minimum of 5 staff members as Certified Erosion and Sediment Control Lead (CESCL)
- The City makes available all copies of the Notice of Intent (NOI) for both construction and industrial activities.
- All stormwater plans are reviewed and approved as part of the building permit or grade and fill process.
 - Stormwater plans from projects disturbing more than one acre are reviewed and
 inspected by the City prior to the start of construction, when construction is complete
 and at intervals during the project determined by the Public Works Director.
 - The City conducts inspections of all projects greater than one acre, and all projects of any size that are part of a common plan of development or sale that is greater than one acre. Inspections are conducted by the Deputy Public Works Director, in accordance with the City of Aberdeen Code for Stormwater inspection.
 - The Deputy Public Works Director shall be responsible for all actions regarding inspections and enforcement for all sites that disturb an area greater than one acre or of any size that are part of a common plan of development or sale that is greater than

one acre. All records pertaining to the qualifying project shall be kept in the files of the Deputy Public Works Director and shall include the following documents:

- Permit applications
- Permit conditions
- Inspections
- Violations
- Correspondences
- Corrective actions
- Facility maintenance plans documentations
- The City enforces local ordinances controlling runoff from sites through the procedures and provisions stated in the City of Aberdeen Code for Stormwater. The standard operating procedure for enforcement actions is as follows:
 - Upon identifying an out of compliance issue or complaint the inspector can choose to issue a verbal warning or post a written warning at the premises.
 - The issue is to be re-inspected for compliance within 48 hours.
 - If issue persists, inspector should post a stop work order.
 - If work continues without remedy of the issue, the formal legal process should be started in compliance with the established provisions in the City of Aberdeen Code for General Penalty – Civil Violations.
- Due to greatly reduced development within the City, the amount of work required to meet the stormwater plan review and inspection needs has been financed through the general revenue received from building permit fees. The City plans to review its actual costs as it finalizes its own procedures and practices and then develop a fee structure to cover the costs. Based on projected needs and the current development and economic climate, the City doesn't anticipate implementing a fee schedule until 2014.

5.3 Planned Activities

The City is now compliant with all of the rules and regulations that have been adopted. There are some standard operating processes that need to be further developed in order to insure consistent compliance with the Permit. In order to maintain compliance with the current permit requirements the City plans to do the following:

- The City will continue all current practices.
- The City will continue to maintain a minimum of 5 staff members as Certified Erosion and Sediment Control Lead (CESCL)
- The City will adopt a fee schedule sufficient to fund the permitting, inspection, and enforcement program by 2014.
- The City will enforce local ordinances controlling runoff from sites that are also covered by stormwater permits.

Section 6 Pollution Prevention and Operation and Maintenance for Municipal Operations

This section summarizes the Phase II permit requirements for pollution prevention and operation and maintenance, describes current activities the City has implemented to meet the Phase II requirements, and identifies activities that the City plans to undertake to keep its current program in compliance with the Phase II permit requirements and scheduled efforts through the end of the permit cycle.

6.1 Permit Requirements

Section S5.C.5 of the Phase II permit requires the City to provide a Pollution Prevention and Operation and Maintenance Program for the area served by its MS4. This program is intended to prevent or reduce pollutant runoff from municipal operations and shall include a training component as follows:

- The City shall establish maintenance standards that are as protective, or more protective, of facility function that those specified in Chapter 4 of Volume V of the 2005 Stormwater Management Manual for Western Washington. The purpose of the maintenance standard is to determine if maintenance is required on a particular facility or structure. If maintenance is deemed necessary during inspection, the following schedule is required for completion of the required maintenance:
 - Within 1 year for wet pool facilities and retention/detention ponds
 - Within 6 months for typical maintenance
 - Within 9 months for maintenance requiring revegetation
 - Within 2 years for maintenance that requires capital construction of less than \$25,000.
- Annual inspection of all municipally owned or operated permanent stormwater treatment and flow control facilities other than catch basins.
- Spot checks of potentially damaged permanent treatment and flow control facilities, other than catch basins after major (greater than 24-hour-10-year recurrence interval rainfall) storm events. If spot checks reveal widespread damage/maintenance needs, inspect all stormwater treatment and flow control facilities that may be affected.
- Inspection of all catch basins and inlets owned or operated by the City at least once within the 5-year permit cycle.
- Inspection of at least 95 percent of all sites where inspection is required, either cyclically or storm-event related, as described above.
- Establishment and implementation of practices to reduce stormwater impacts associated with runoff from streets, parking lots, roads, or highways owned or maintained by the City and road maintenance activities conducted by the City. The following activities shall be addressed:
 - Pipe cleaning
 - Cleaning of culverts that convey stormwater in ditch systems
 - Ditch maintenance
 - Street cleaning
 - Road repair and resurfacing, including pavement grinding
 - Snow and ice control
 - Utility installation
 - Pavement striping maintenance
 - Maintaining roadside areas, including vegetation management
 - Dust control.

- Establishment and implementation of policies and procedures to reduce pollutants in discharges from all lands owned or maintained by the City. These policies shall address, but are not limited to:
 - Application of fertilizer, pesticides, and herbicides, as well as the development of nutrient management and integrated pest management plans
 - Sediment and erosion control
 - Landscape maintenance and vegetation disposal
 - Trash management
 - Building exterior cleaning and maintenance.
- Develop and implement an ongoing training program for employees of the City whose construction, operation or maintenance job functions may affect stormwater quality. Followup training shall be provided as needed to address changes in procedures, techniques, or requirements.
- Records of inspections and maintenance or repair activities conducted by the City shall be
 documented and a summary of actions taken included in the operation and maintenance
 section of the updated SWMP annual report.

6.2 Current Activities

- The City annually inspects all municipally owned or operated permanent stormwater treatment and flow control facilities for defects that require maintenance.
- Spot checks of potentially damaged permanent treatment and flow control facilities, other than catch basins after major (greater than 24-hour-10-year recurrence interval rainfall) storm events. If spot checks reveal widespread damage/maintenance needs, inspect all stormwater treatment and flow control facilities that may be affected.
- Inspection of all catch basins and inlets owned or operated by the City annually.
- Inspection of at least 95 percent of all sites where inspection is required, either cyclically or storm-event related, as described above.
- Establishment and implementation of practices to reduce stormwater impacts associated with runoff from streets, parking lots, roads, or highways owned or maintained by the City and road maintenance activities conducted by the City through the adherence of developed operation and maintenance standards. The City has developed a pollution prevention and operations maintenance program for the following activities:
 - Ditch Cleaning
 - Dust Control
 - Equipment Repair
 - Gravel Stockpiling
 - Industrial Wash Rack
 - Parking and Storage of Vehicles
 - Pipe Cleaning
 - Roadside Maintenance
 - Road Repair (resurfacing)
 - Snow and Ice Control
 - Storage, Loading and Unloading of Liquids
 - Street Cleaning
 - Utility installation
 - Washing Vehicles
- The City has developed and implemented an ongoing training program for employees of the City whose construction, operation or maintenance job functions may affect stormwater quality. Training is conducted quarterly with follow-up training provided as required to

address changes in procedures, techniques, and requirements. The following subjects will be covered on an annual basis:

- Public Works Maintenance Yard SWPPP
- Vactor Waste Facility SWPPP
- Charley Creek Dump Site SWPPP
- Public Works Maintenance Yard BMP's
- Spill Control Plan
- Records of inspections, maintenance or repair activities conducted by the City shall be documented and included in the operation and maintenance section of the updated SWMP annual report.

6.3 Planned Activities

In Order to keep the City in compliance with the permit requirements the city staff will continue current practices.

Section 7 Pollution Prevention and Operation and Maintenance for Municipal Operations

7.1 Permit Requirements and Flood Impacts

While there are no Phase II requirements directly addressing the stormwater flooding issues that face the City of Aberdeen this issue is of paramount importance to the City and does have an impact on stormwater quality. Historically stormwater quality issues created by stormwater flooding in Aberdeen have resulted in infiltration and inflow problems to the sanitary sewer systems which have resulted in sanitary sewer overflows and overloading of the waste water treatment plant in addition to the washing of unwanted debris into the stormwater collection system. For a city over 10,000 people, the City of Aberdeen is the rainiest city in the continental United States and large sections of the City of the community are at certain times below the level of the Pacific Ocean.

Because of these conditions and the substandard storm drainage system the City has until recently experienced the negative impacts of stormwater flooding multiple times per year. As a result, the limited funding for stormwater projects has gone first to address stormwater flooding issues.

7.2 Current Activities

In the last decade the City has made major capital investments in addressing stormwater flooding. Completed projects include construction of 13 stormwater pump station, numerous tidegate improvements, several large detention basins (to store stormwater during high tide periods), diking projects, and many piping and catch basin improvements.

7.3 Planned Activities

The City's major challenge in stormwater flooding prevention will be to maintain the system that has been constructed. Many other small projects will be completed as resources allow.

Appendix A – Acronyms and Definitions

Appendix A

ACRONYMS AND DEFINITIONS

The following definitions and acronyms are taken directly from the Phase II Permit and are reproduced here for the reader's convenience.

AKART means all known, available, and reasonable methods of prevention, control and treatment.

All known, available and reasonable methods of prevention, control and treatment refers to the State Water Pollution Control Act, Chapter 90.48.010 and 90.48.520 RCW.

Basin Plan is a surface water management process consisting of three parts: a scientific study of the basin's drainage features and their quality; developing actions and recommendations for resolving any deficiencies discovered during the study; and implementing the recommendations, followed by monitoring.

Best Management Practices ("BMPs") are the schedules of activities, prohibitions of practices, maintenance procedures, and structural and/or managerial practices approved by the Department that, when used singly or in combination, prevent or reduce the release of pollutants and other adverse impacts to waters of Washington State.

BMP means Best Management Practice.

Component or **Program Component** means an element of the Stormwater Management Program listed in S5 Stormwater Management Program for Cities, Towns, and Counties or S6 Stormwater Management Program for Secondary Permittees of this permit.

CWA means Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972) Pub.L. 92-500, as amended Pub. L. 95-217, Pub. L. 95-576, Pub. L. (6-483 and Pub. L. 97-117, 33 U.S.C. 1251 et.seq.

Discharge for the purpose of this permit means, unless indicated otherwise, any discharge from a MS4 owned or operated by the permittee. Ecology's Western Washington Phase II Municipal Stormwater Permit regulates discharges from municipal separate storm sewers owned or operated by Grays Harbor County and The City of Aberdeen.

Ecology's Western Washington Phase II Municipal Stormwater Permit covers certain "small" municipal separate stormwater sewer systems.

Entity means another governmental body, or public or private organization, such as another permittee, a conservation district, or volunteer organization.

Equivalent document means a technical stormwater management manual developed by a state agency, local government or other entity that includes the Minimum Technical Requirements in Appendix 1 of this Permit. The Department may conditionally approve manuals that do not include the Minimum Technical Requirements in Appendix 1; in general, the Best Management Practices (BMPs) included in those documents may be applied at new development and redevelopment sites, but the Minimum Technical Requirements in Appendix 1 must still be met.

Heavy equipment maintenance or storage yard means an uncovered area where any heavy equipment, such as mowing equipment, excavators, dump trucks, backhoes, or bulldozers are washed or maintained, or where at least five pieces of heavy equipment are stored.

Illicit connection means any man-made conveyance that is connected to a municipal separate storm sewer without a permit, excluding roof drains and other similar type connections. Examples include sanitary sewer connections, floor drains, channels, pipelines, conduits, inlets, or outlets that are connected directly to the municipal separate storm sewer system.

Illicit discharge means any discharge to a municipal separate storm sewer that is not composed entirely of storm water except discharges pursuant to a NPDES permit (other than the NPDES permit for discharges from the municipal separate storm sewer) and discharges resulting from fire fighting activities.

IDDE- Illicit discharge detection and elimination

Low Impact Development (LID) means a stormwater management and land development strategy applied at the parcel and subdivision scale that emphasizes conservation and use of on-site natural features integrated with engineered, small-scale hydrologic controls to more closely mimic predevelopment hydrologic functions.

Major Municipal Separate Storm Sewer Outfall means a municipal separate storm sewer outfall from a single pipe with an inside diameter of 36 inches or more, or its equivalent (discharge from a single conveyance other than circular pipe which is associated with a drainage area of more than 50 acres); or for municipal separate storm sewers that receive stormwater from lands zoned for industrial activity (based on comprehensive zoning plans or the equivalent), an outfall that discharges from a single pipe with an inside diameter of 12 inches or more or from its equivalent (discharge from other than a circular pipe associated with a drainage area of 12 acres or more).

Material Storage Facilities means an uncovered area where bulk materials (liquid, solid, granular, etc.) are stored in piles, barrels, tanks, bins, crates, or other means.

Maximum Extent Practicable (MEP) refers to paragraph 402(p)(3)(B)(iii) of the federal Clean Water Act which reads as follows: Permits for discharges from municipal storm sewers shall require controls to reduce the discharge of pollutants to the maximum extent practicable, including management practices, control techniques, and system, design, and engineering methods, and other such provisions as the Administrator or the State determines appropriate for the control of such pollutants.

MEP means Maximum Extent Practicable.

MTRs means Minimum Technical Requirements.

Municipal Separate Storm Sewer System (MS4) means a conveyance, or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains):

- (i) Owned or operated by a state, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State Law) having jurisdiction over disposal of wastes, storm water, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to waters of the United States.
- (ii) Designed or used for collecting or conveying stormwater.

(iii) Which is not a combined sewer; and (iv) which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

National Pollutant Discharge Elimination System (NPDES) means the national program for issuing, modifying, revoking, and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under sections 307, 402, 318, and 405 of the Federal Clean Water Act, for the discharge of pollutants to surface waters of the state from point sources. These permits are referred to as NPDES permits and, in Washington State, are administered by the Washington Department of Ecology.

Notice of Intent (NOI) means the application for, or a request for coverage under this General Permit pursuant to WAC 173-226-200.

Outfall means point source as defined by 40 CFR 122.2 at the point where a municipal separate storm sewer discharges to waters of the State and does not include open conveyances connecting two municipal separate storm sewer systems, or pipes, tunnels, or other conveyances which connect segments of the same stream or other waters of the State and are used to convey waters of the State.

O&M- Operations and Maintenance

Permittee unless otherwise noted, the term "Permittee" includes Permittee, Co-Permittee, and Secondary Permittee, as defined below:

- (i) A "Permittee" is a city, town, or county owning or operating a regulated small MS4 applying and receiving a permit as a single entity.
- (ii) A "Co-Permittee" is any operator of a regulated small MS4 that is applying jointly with another applicant for coverage under this Permit. Co-Permittees own or operate a regulated small MS4 located within or adjacent to another regulated small MS4.
- (iii) A "Secondary Permittee" is an operator of regulated small MS4 that is not a city, town or county.

Small Municipal Separate Storm Sewer System or Small MS4 is a conveyance or system of conveyances including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels and/or storm drains which is:

- a. Owned or operated by a city, town, county, district, association or other public body created pursuant to State law having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under State law such as a sewer districts, flood control districts or drainage districts, or similar entity.
- b. Designed or used for collecting or conveying stormwater.
- c. Not a combined sewer system,
- d. Not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.
- e. Not defined as "large" or "medium" pursuant to 40 CFR 122.26(b)(4) & (7) or designated under 40 CFR 122.26 (a)(1)(v). Small MS4s include systems similar to separate storm sewer systems in municipalities such as: universities, large publicly owned hospitals, prison complexes, highways and other thoroughfares. Storm sewer systems in very discrete areas such as individual buildings do not require coverage under this Permit. Small MS4s do not include storm drain systems operated by non-governmental entities such as: individual buildings, private schools, private colleges, private universities, and industrial and commercial entities.

Stormwater means runoff during and following precipitation and snowmelt events, including surface runoff and drainage.

Stormwater Associated with Industrial and Construction Activity means the discharge from any conveyance which is used for collecting and conveying stormwater, which is directly related to manufacturing, processing or raw materials storage areas at an industrial plant, or associated with clearing grading and/or excavation, and is required to have an NPDES permit in accordance with 40 CFR 122.26.

Stormwater Management Manual for Western Washington means the 5-volume technical manual (Publication Nos. 99-11 through 15 for the 2001 version and Publication Nos. 05-10-029-033 for the 2005 version (The 2005 version replaces the 2001 version) prepared by Ecology for use by local governments that contains BMPs to prevent, control, or treat pollution in storm water.

Stormwater Management Program (SWMP) means a set of actions and activities designed to reduce the discharge of pollutants from the regulated small MS4 to the maximum extent practicable and to protect water quality, and comprising the components listed in S5 or S6 of this Permit and any additional actions necessary to meet the requirements of applicable

Vehicle Maintenance or Storage Facility means an uncovered area where any vehicles are regularly washed or maintained, or where at least 10 vehicles are stored.

Appendix B – Barriers to Low Impact Development

City of Aberdeen



Public Works & Utilities Department
Stormwater Division

phone (360) 537-3393 • fax (360) 532-2452

e-mail rsangder@aberdeenwa.gov
jspringer@aberdeenwa.gov

Public Works and Utilities Department Stormwater Program

Barriers to Low Impact Development Implementation in Accordance with Condition S9.E.4 of the Phase II Permit This report is written to address NPDES Phase II Municipal Permit Requirement S9.E.4.

Summary of barriers to the Use of Low Impact Development Techniques within the City of Aberdeen Permit Area.

- Soil types in the Aberdeen area are generally defined by the USDA as Ocosta. This type
 of soil is nearly flat, very deep and poorly drained. Soil on upper northern portion of the
 City is Zen Ker Elochoman. These soils are better drained but are very steep and
 overlay siltstone which limits ability to infiltrate water.
- Groundwater migration, especially near hillsides or bluffs is a large concern. Saturation of hillsides has lead to slope failures during major storm events.
- Resistance and lack of understanding from local developers and engineers. Local developers are reluctant to try unfamiliar techniques.
- Resistance from the City operations division. City crews are familiar with cleaning pipes
 and structures. They are concerned about maintaining landscaping and vegetation as a
 stormwater facility. Costs for maintenance and life cycle costs are uncertain. The City
 has no resources to increase maintenance cost.
- Resistance from other City departments. City staff is concerned about aesthetics around
 open ditches, as well as having residents fill them in and park in them. City engineers
 have concerns about the potential failure of permeable pavements in high traffic/ high
 loading areas.
- Resistance from City residents. City residents are concerned more with flooding than any
 other stormwater issue. Because of topography and soils that have low permeability the
 water needs to be moved off site rapidly to avoid localized flooding. Because of the
 Harbor location down stream flood issues are not usually relevant.
- Cost. The cost of redeveloping existing areas cannot be met with existing funding sources.

Availability of LID Practices

All LID practices will be available within the City and can be implemented within this Permit term. Changes to our stormwater ordinance which accommodates the use of all LID practices has been drafted by the City attorney and is scheduled for passage soon.

Planned LID or Non Structural Actions

The City has no new planned LID or Non Structural Actions scheduled, however the City completed two projects last year that enhanced water quality runoff from much of City area that drains to Fry Creek and Mill Creek. Two large ponds, one that acts as a wet pond and one that functions as a wetland were installed at the end of the major west end stormdrain, collects sediments prior to its discharge to Fry Creek. On the south side of town the City constructed a couple of large bioswales that detain stormwater prior to discharge to the Mill Creek area.

Planned Schedules to Require LID Techniques

At this time, the City is not planning to require LID in either public or private development projects. We encourage LID.

It is our understanding that the Department of Ecology will likely require LID use on future development projects the next Permit term. The City will implement this policy to the extent that it is deemed practical for our conditions.

11 - 02

ORDINANCE NO. 6526

AN ORDINANCE RELATING TO LOW IMPACT DEVELOPMENT APPROACHES TO STORM AND SURFACE WATER MANAGEMENT, AMENDING SECTIONS 13.70.020 AND 13.70.130 OF THE ABERDEEN MUNICIPAL CODE AND AMENDING ORDINANCE 6503.

WHEREAS, the city's storm and surface water management code must be amended to allow Low Impact Development Approaches (LIDA) as an alternative to the structural standards in the Stormwater Management Manual for Western Washington; NOW, THEREFORE,

BE IT ORDAINED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF ABERDEEN:

SECTION 1. CODE SECTION AMENDED. Ordinance 6503, Section 2, in part, codified as AMC 13.70.020X (Definitions), is hereby amended to read as follows:

"Storm and surface water management" means:

- 1. For quantitative control, a system of vegetative and structural measures that control the increased volume and rate of surface runoff caused by manmade changes to the land; and
- 2. For qualitative control, a system of vegetative, structural and other measures that reduce or eliminate pollutants that might otherwise be carried by surface runoff.
- 3. For "Low Impact Development Approaches (LIDA)" combining quantitative and qualitative controls, a stormwater management and land development strategy applied at the parcel and subdivision scale that aims to mimic natural hydrology and processes by using smallscale, decentralized practices that infiltrate, evaporate, and transpire rainwater. LIDA should: minimize impervious surfaces; disconnect hydrologic elements (roofs, downspouts, parking areas); maintain/increase flow paths and times; and utilize decentralized treatment practices.

SECTION 2. CODE SECTION AMENDED. Ordinance 6503, Section 2, in part, codified as AMC 13.70.130 (Minimum control and management requirements), is hereby amended to read as follows:

The minimum storm and surface water control and management requirements shall be in accordance with standards adopted by the city and included in the Stormwater Management

Manual for Western Washington. <u>Low Impact Development Approaches (LIDA) may be</u> substituted for structural standards in the Stormwater Management Manual where the <u>LIDA</u> is developed by a licensed professional in accordance with accepted industry practices.

SECTION 3. PUBLICATION BY SUMMARY. The Finance Director is authorized and directed to publish the attached summary in lieu of this ordinance.

SECTION 4. EFFECTIVE DATE. This ordinance shall take effect immediately upon its passage, signing, and publication.

PASSED and APPROVED this 25th day of January, 2012.

Bill Simpson, Mayor

ATTESTED:

Kathryn Skolrood, Finance Director

Appendix C – Monitoring Proposal

City of Aberdeen



Public Works & Utilities Department
Stormwater Division

phone (360) 537-3393 • fax (360) 532-2452

e-mail rsangder@aberdeenwa.gov

jspringer@aberdeenwa.gov

Public Works and Utilities Department Stormwater Program

Monitoring Proposal in Accordance with Condition S8 of the Phase II Permit

NPDES Monitoring Proposal to Meet condition S8 of the Phase II Municipal Permit Background

This document has been prepared to meet NPDES Permit Condition S8C1a Stormwater Outfall Monitoring and S8C1b Stormwater Management Plan Effectiveness Monitoring.

Permit Condition S8C1a requires outfall monitoring based on population. The City of Aberdeen has a population of approximately 17,000, and is therefore required to identify two outfalls where stormwater sampling can be conducted. One outfall is required to represent a commercial land use. The other outfall must represent a high density residential land use, defined as 4 units per acre, or greater. These outfalls must be selected based on a known water quality problem or an area of interest for future monitoring.

Condition S8C1b requires the City to conduct monitoring to determine the effectiveness of a targeted action within the Stormwater Management Plan (SWMP), or to determine whether the SWMP is achieving a targeted environmental outcome.

In order to reduce the cost of the monitoring studies, the City is proposing to select two outfalls that have known water quality issues, and perform both the outfall and monitoring at each outfall site.

Challenges in Meeting Permit Monitoring Location Requirements

The permit conditions require that our monitoring target either an area with known water quality problems or an area of interest for future monitoring. The City of Aberdeen has over 50 separate stormwater discharge points to waters of the US. The City has not performed water quality testing at any of the stormwater discharge points therefore it is not possible to designate a point with known water quality problems.

Because much of the community is relatively flat and many of the drainage basins are interconnected by piping, during peak flow conditions the direction of flow in some areas are

dependant upon the tide elevation and which pumps are running. This condition was considered in selecting the basins to be monitored so that any pollutant leaving the basin would be going through the monitoring location.

Since there are no identified problem areas, the City will be selecting two fairly large areas that would be considered representative of the commercial high density areas in our community. Areas will be selected which only have water flows which originate from the area being monitored. Many of the other drainage areas also contain flows that are originating from outside the developed portion of the City making it more difficult to determine the source of any identified pollutants.

H Street Drainage Area

Land use in the H Street Drainage Area consists primarily of commercial, institutional, and apartments. The drainage area is approximately 59 acres that drains to the Chehalis River. Other than the parking lot for the high school there are no special water quality treatment facilities in the drainage area. The monitoring point will be at the H Street pump station manhole. There are no other flows to the outfall downstream of the pump station. The actual outfall is located in the river and access to it is very difficult and is available only at low tides. The proposed monitoring location and associated drainage area is shown on exhibit A. Monitoring will be performed on a monthly grab sample basis. The hydraulics of the sample location are complicated and will require coordination between rainfall events and tides in order to get a representative sample. The hydraulic capacity of the outfall is determined by the elevation of the water in the river. The river water level is subject to a typical 8 foot tidal variation. Water will gravity flow to the river during normal high tide but at extreme high tides the water level in the river is above the ground level of some areas in the drainage area. Tide gates prevent water from the river backflowing into the drainage system. It is during those times that the pump is utilized. Also, even during normal high tide cycles the hydraulic capacity is reduced to the point that the pump is needed for the area to drain because flows exceed the hydraulic capacity of the lines. Because water quality can be affected by how long the water is detained in the pipe system, (ie: sediments can drop out and then resuspend when the system starts moving water) and the background flow in the system is small, sampling will only be performed when there is enough rainfall to create a stormwater flow in the system. The City will test for the following parameters; ph, turbidity, and fecal coliforms. There will also be a visual inspection for oils. The City will maintain rainfall records at the treatment plant for comparison of water quality and rainfall events. A grab sample of the Chehalis River within 200 feet of the outfall will also be taken. It is not felt that a downstream and upstream sample is warranted as the discharge is a very small portion of the total flow in the river and which direction is actually "upstream & downstream" changes constantly with the tide.

Arthur Street Drainage Area

Land us in the Arthur Street Drainage Area consists primarily of high density residential development. The drainage area is approximately 64 acres that drains to the Wishkah River. There are no special water quality treatment facilities in the drainage area. The sampling point will be at the Arthur Street pump station manhole. There are no other flows to the outfall downstream of the pump station. The actual outfall is located in the river and access to it is very difficult and is available only at low tides. The hydraulic characteristics are similar to H Street Drainage Area as it relates to flows being influenced by tides and pumping. Therefore all the same monitoring protocol will be applied at this location as the H Street monitoring site. The proposed monitoring location and associated drainage area is shown on exhibit B.

Program Effectiveness Study for Monitoring Sites

In Aberdeen's situation it is impractical to perform monitoring to determine if any particular program is having an impact on water quality improvement because there is no background data. Background data is needed to determine whether or not there is a problem and if there is, how big a problem it is. The most cost effective thing we felt could be done to improve water quality would be a stepped up program of street sweeping and catch basin cleaning. The City has already implemented these programs and have cleaned all catch basins throughout the City in the last couple of years and have stepped up street sweeping efforts. Because we have already taken these steps without any previous monitoring it would not be possible to determine the effectiveness by monitoring.

The only effectiveness we will be able to extrapolate will be to compare our monitoring date from our sites with values that would be typical stormwater values for similar sites elsewhere. We do feel that there is merit in performing the monitoring because it will allow us to establish typical base line data that can be applied to other sites that would be monitored in the future in Aberdeen. Also if the monitoring uncovers special problems then the frequency of monitoring can be adjusted and monitored at multiple points within the basin can be performed to determine if the problem is of a general nature or site specific.

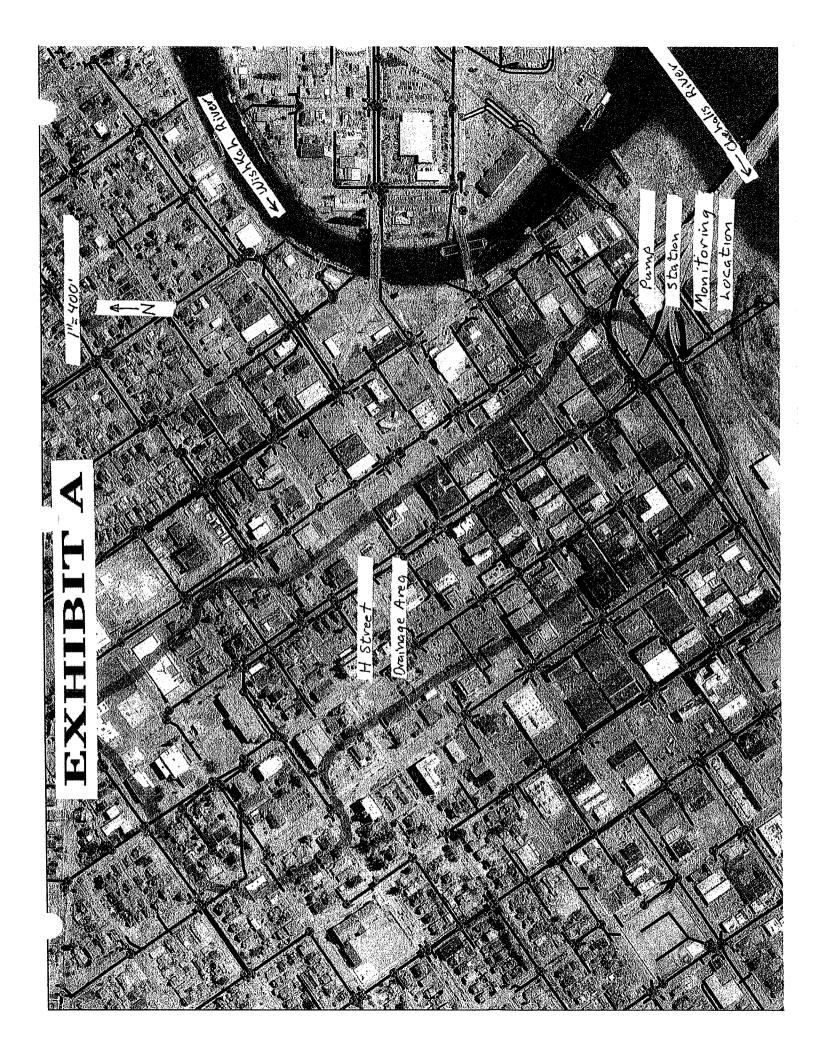
One parameter of concern will be fecal coliforms as that would be an indication of potential illicit discharge. Both basins originally had some combined storm and sanitary sewer lines and there were also some sanitary / storm cross connections that diverted sanitary sewage to the stormwater system during high rainfall events. We believe all those various problems have been resolved but this monitoring program can help verify that assumption.

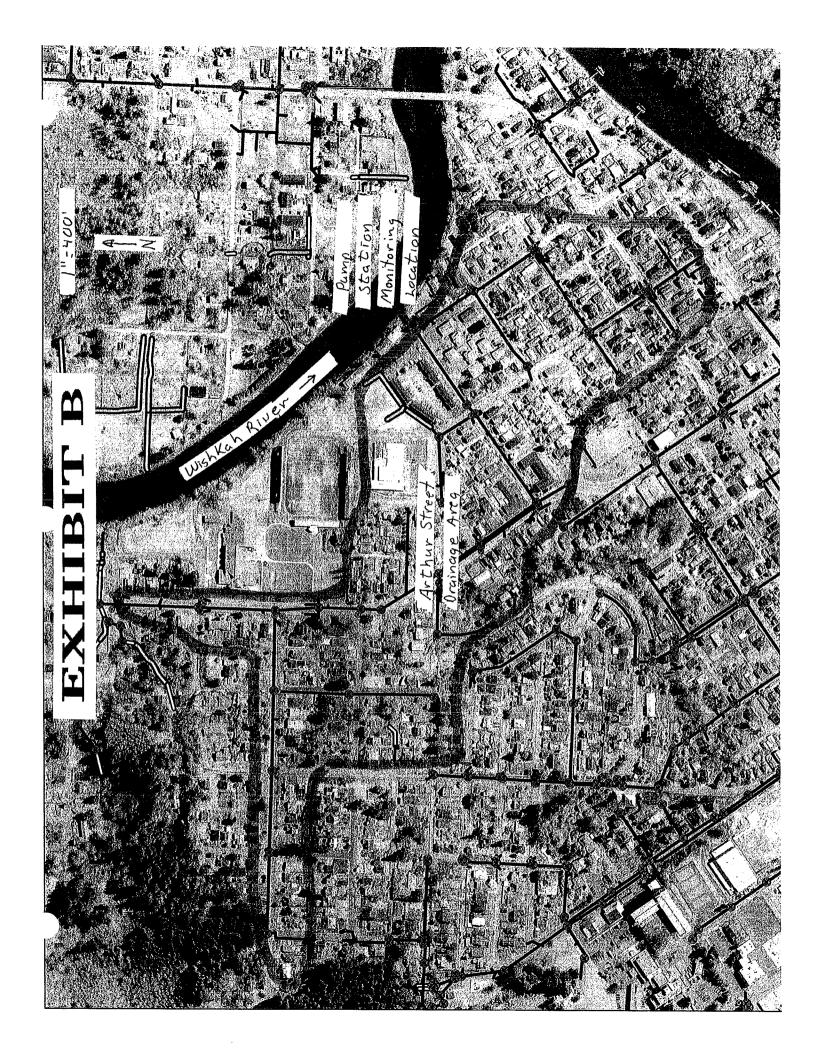
It will be difficult to determine the effectiveness of any stormwater improvements that are related to new residential development. There has been only one new subdivision developed in the last 10 plus years. The population has been on the decline for decades. We feel that is stabilized but no significant residential growth is expected in the next five years, so impacts related to new residential growth can't be monitored.

The City will reevaluate our goals and potential for measuring effective of programs after we have obtained at least a year of data at the monitoring locations.

City of Aberdeen Preparations for Future Monitoring

The City has legal access to the two monitoring locations. Sampling will be performed by City Staff. The stormwater supervisor also holds a Group I Wastewater Certificate and is familiar with sampling protocols. The City of Aberdeen has a certified lab at the Sewer Treatment Plant which can assist in sample analysis. The City will take the steps necessary to begin the monitoring at the two locations beginning of October 2011.

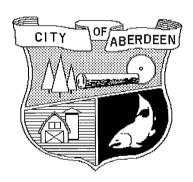




Illicit Discharge Detection and Elimination (IDDE) Program

City of Aberdeen Public Works

August 2011



City of Aberdeen, Washington Illicit Discharge Detection and Elimination (IDDE) Program

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Appendix A: IDDE Ordinance

Appendix B: Illicit Discharge Incident Reporting Forms

Appendix C: Outfall Reconnaissance Inventory/Sample Collection Field Sheet

Appendix D: Illicit Discharge Hotline Incident Tracking Sheet

Illicit Discharge Detection and Elimination (IDDE) Program

Overview

An illicit discharge is generally any discharge, release, or pumping of a pollutant or polluted water into the stormwater system. The National Pollutant Discharge Elimination System (NPDES) regulates the discharge of stormwater under the authority of the Federal Clean Water Act. Washington State Department of Ecology (Ecology) has the designated authority to administer NPDES within the State of Washington. Under this authority, Ecology has issued NPDES permits regulating the discharge of stormwater. The City of Aberdeen is under regulation of the Phase II Municipal Stormwater Permit issued on February 16, 2007. The current Phase II permit will remain in effect until February 15, 2012, after which a new Phase II permit will be issued.

The Phase II permit mandates permittees to prepare and implement an Illicit Discharge Detection and Elimination (IDDE) program. This plan and its implementation satisfies this requirement. The goal of this plan is to identify and then eliminate illicit discharges. Examples of illicit discharges include:

- Direct of indirect sanitary wastewater discharges that connect to the storm sewer or watercourse, such as a shop floor drain connected to a storm drain, a cross-connection between the municipal sanitary sewer and storm sewer systems, a damaged sanitary sewer line that is leaking sewage into a cracked storm sewer line, or a failing septic system that is leaking into a water course.
- Materials (e.g.; used motor oil) that have been dumped illegally into a storm drain catch basin.
- Improper home or business owner activities such as washing paint brushes into a catch basin, washing new textured concrete driveways into a storm drain, draining swimming pools to the storm system (swimming pools have high pH and chlorine), excess use of fertilizers, or washing cars with chemicals that enter the storm drain system.

The NPDES Permit sets forth the minimum elements of the plan which are listed below. These minimum elements are described throughout the remainder of this document.

- Municipal Storm Sewer System Mapping
- Ordinances (that effectively prohibit illicit discharges)
- Detection and Elimination Program
- Public Education
- Staff Training

Municipal Storm Sewer System Mapping

Current Program

The City currently has the following stormwater-related information in their geographic information system (GIS) database:

- Storm sewers
- Catch Basins and manholes
- Ditches
- Streams (watercourses)
- Outfalls

The current program is compliant with the NPDES permit requirements and is completed in advance of the established August 19, 2011 deadline within the permit. Some of the more specific elements of the program as required by the permit are listed below:

- 1. A Map of all structural BMPs owned, operated, or maintained by the City.
- 2. For pipe outfalls 24-inch-diameter pipes and watercourse outfalls, a map with the following attributes for each outfall: tributary conveyances (type, material, and size where known), associated drainage areas, and land use. Although most of the watercourses and pipes have a cross-sectional area less than a 24-inch-diameter pipe, the City has elected to consider and map all of the known pipe outfalls 6 inches or greater and all flowing (dry weather) watercourses including seeps and drainages.
- 3. A program to develop and maintain a map of all connections (ditch or pipe) to the City's storm system allowed or authorized after January 2011.

The City of Aberdeen is bisected by the Chehalis and Wishkah Rivers. There are also numerous small streams and drainage channels that run through the City. The City has implemented an IDDE outfall screening program and has physically inspected all 30+ outfalls of the stormwater drainage system.

Ordinances

Current Ordinances

Aberdeen Municipal Code Chapter 13.70 Storm and Surface Water Management prohibits illicit discharges and illicit connections and uses (section 13.70.200). Connections to the stormwater system must contain only stormwater and groundwater otherwise they are to be eliminated. The IDDE ordinance is included in the appendix for reference.

Detection and Elimination Program

Response to Suspected or Reported Illicit Charges

The City currently has a Surface and Stormwater Management Program to fulfill an illicit discharge detection and elimination (IDDE) program which includes: commercial property

inspections, outreach and education, water quality monitoring and stormwater system operation and maintenance.

The City of Aberdeen maintains a hotline that citizens can call during business hours to report a suspected illicit discharge. Calls relative to illicit discharges can be received by several Public Works offices.

Aberdeen Phone Numbers:

Hotline – (360) 537-3393 Street Department – (360) 537-3268 Sewer Department – (360) 537-3285 Engineering Department – (360) 537-3215

Calls to any of the above numbers will result in information being received and routed to the proper individuals.

Proactive Investigation

Prioritization Procedures

In addition to maintaining a hotline for citizen complaints, the City is required to proactively conduct field assessments to identify illicit discharges and illegal connections to the City's stormwater system and receiving water bodies.

The first step of the proactive work is to prioritize those areas most likely to contain illicit discharges ("hot spots") based on an analysis of land use and other specific information. It is felt that the following types of areas are more likely to generate polluted discharges than others:

- 1. Locations where there have been repeated problems in the past. This could include areas with water quality data or where repeated complaints have been filed.
- 2. Older areas of a community typically have a higher percentage of illegal connections. Also, deteriorating sewer pipes can allow wastewater to exfiltrate out of the sanitary lines and into the surrounding environment.
- 3. Commercial and industrial areas tend to have a higher percentage of illicit discharges.
- 4. Areas with large and/or many storage vessels of hazardous solids or liquids.

Another consideration for Aberdeen is the proximity of the higher risk land uses (commercial/industrial) to receiving waters. These areas will have a short flow path and greater chance of adversely affecting a larger aquatic system in the event of an illicit discharge or spill.

The City may also choose to conduct a qualitative assessment of the City's surface waters by walking the marine shoreline and streams to identify additional areas of concern. This activity can also be used to ground-truth the outfall map, determine the accessibility of the streams for future monitoring, and provide a photographic record of existing conditions.

As of 2010, the City conducted field assessments of all outfalls discharging to water bodies in the City of Aberdeen. During those inspections the City determined if the tide gates needed any maintenance and performed what was needed. The City found evidence of normal stormwater debris (i.e. trash, plastic, Styrofoam, and garbage) at many locations but did not document the amounts or location. At the time of the inspections there wasn't any evidence of other types of illicit discharges and the exact findings were not documented. Future inspections will include photographs and written documentation of each inspection.

A GIS-based map can be developed of potential hot spots and prioritized water bodies. It is expected that due to internal training of staff and public outreach efforts required by the NPDES permit, the City will develop a better understanding of the causes and locations of illicit discharges. The GIS map (or other tracking tool) can be regularly updated to reflect reports from staff and the public as well as information learned by the on-going field assessment work as the City's IDDE program matures.

Based on IDDE considerations such as those above, the City has implemented a program. Beginning in 2012 the City will:

- **Sub-watershed Assessments:** The City has prioritized sub-watersheds for IDDE risk based on four screening factors: total impervious area, wastewater infrastructure material and age, land use, and previous problems.
- **Storm Facility Inspections:** PW will identify and inspect private commercial, private residential and City maintained stormwater facilities throughout the City limits. Work on this will begin when we receive our new aerial photographs and should be completed within the next year.
- Fecal Coliform Receiving Water Trend Monitoring Program: Implement an ongoing water quality monitoring program. Monitoring focuses on outfalls to streams and river waters. The data will assist in prioritizing additional detailed system inspections. The sampling will be preformed as required by Phase II guidelines.
- Outfall Reconnaissance: Will complete a document inspection program for the mapped outfalls in 2011. The inspection program will include outfall location and screening for illicit discharges.

General Field Assessment Procedures

The following general recommendations apply to the dry weather field inspection and water sampling work (Center for Watershed Protection & Pitt, 2004):

- 1. Notify the public during field work projects. Public notices and informational mailers can improve the success of the program by educating the citizenry.
- 2. Develop training and protocols to keep workers safe during field work.
- 3. Make good use of the mapping information that has been developed by the City.
- 4. Fill out a standard field inspection form (see Appendix C).
- 5. Report spills illicit discharges or connections as required by the NPDES permit (Appendix B).

Physical Parameters

During dry weather field inspections, a variety of physical parameters will be recorded at each site to assess conditions. At flowing outfalls this includes flow, odor, color, turbidity, and presence or absence of floatables. The information that is obtained from the physical characteristics observed are indicators and cannot be fully relied upon by themselves.

A qualitative observation of flow (none, trickle, moderate, or substantial) should be made. Flow rates can be estimated by one of the following simple methods:

- 1. Record the time required for the full flow to fill container of a known volume.
- 2. Multiply cross-sectional flow area by flow velocity. For most instances, flow area is based on an estimate of mean depth and width. Flow velocity is based on the time of travel for an object floating near the surface over a known length.

Odor is described by one of the following terms: sewage, rancid/sour, petroleum/gas, sulfide, or other. The severity of the odor should also be recorded in the field.

Color can be a description of color type and intensity. It is also a quantitative measurement expressed in cobalt-platinum units (Table 1).

Turbidity can be a qualitative descriptor (clear, slight cloudiness, cloudy, or opaque). Alternatively, it can be measured in the field or in the office with a hand held turbidimeter. It is recommended that the City use a single make and model of meter to reduce the differences in readings associated solely with equipment readings.

Floatables are the best physical indicator. The most common floatables are sewage, suds, and oil sheens. Floatables do not include trash. The observation of sewage at an outfall location indicates that there is a severe problem with the MS4 and should be looked at as to where the source for the sewage is emanating from. Suds can indicate a variety of things. Some suds are naturally formed by the movement of the water. If the suds are located at a water drop off and break up quickly, this may only be water turbulence related. If the suds have a fragrant odor, this can indicate the presence of laundry water or wash water in the water body. Oil sheens need to be looked at to try and determine the source of the oil sheen. Some oil sheens are common and occur naturally by instream processes. This occurs when an iron bacteria forms a sheet-like film. This can be determined by looking at the sheen and seeing if it cracks when disturbed. Synthetic oil sheens, on the other hand, will swirl when disturbed. If this occurs, then the sheen is from an oil source.

The City may select a few water quality parameters that can be measured with inexpensive probes and test kits/strips in the field. These include temperature, pH, ammonia, conductivity, chlorine, and hardness. Other than conductivity, temperature and pH these same parameters can be assessed during laboratory analyses so the field testing is usually unnecessary. It is generally recommended that the majority of analyses be conducted in a more controlled "lab" setting.

There may be physical indicators of illicit discharges even if no flow is present. These include: outfall damage, deposits/stains, abnormal vegetation, poor quality of pooled water, benthic growth in pipe.

During a dry weather inspection, observed flows are considered non-stormwater related. The flow may or may not be the result of an illicit discharge. Also, the absence of a flow does not indicate the absence of an illicit discharge since these discharges can be intermittent or transitory. It is important to observe carefully during the dry weather inspection to determine if an intermittent or transitory pollution problem has occurred.

Water Quality Sampling and Testing

During dry weather inspections physical clues indicating a pollution problem often are not observable. Therefore, water quality sampling and testing will be an essential part of the City's IDDE program. Some parameters can be directly measured in the field using a portable instrument or test kit whereas others require laboratory analysis. Table 1 lists the parameters that must be sampled as well as suggested/optional parameters to be sampled to isolate an illicit discharge. The table also provides the analytical method used when samples are sent to an accredited laboratory and benchmark concentration that typically indicate when there is a problem. Note that these benchmark concentrations are based on samples collected from storm drains nationally. Therefore, benchmark concentrations would be lower for samples drawn from watercourses since the natural base flows would likely dilute any pollutants in water discharged from a contributing storm drainage system.

Table 1

Water Quality Parameter	Use	Analytical Method	Benchmark
			Concentrations
Specific conductance	B, I	SM 2510B	>2,000 _s/cm
Hardness	В, І	EPA 130.1/SM 2340B	<10 mg/L or >2,000 mg/L as CaCO3
Turbidity	B, I	SM 2130B	>1,000 NTU
Color	S, I	SM 2120 B	>500 units
Bacterial counts	В	SM 9222 D/SM 9223 B	>200/>50
Ammonia	R, I	EPA 350.2/SM4500-NH3	>50 mg/L
Surfactants (as MBAS)	R, I	EPA 425.1/SM5540C	>0.25 mg/L
рН	B, I	EPA 150.1/SM 4500H	< 5
Temperature	В	SM 2550 B	
Total chlorine	S	SM 4500-CI G	
Fluoride	S	EPA 300.0	0.25 mg/L
Potassium	S, I	EPA 200.7	>20 mg/L
Optical brighteners (florescence)	S	Center for Watershed Protection 2004	
Dissolved oxygen	S	SM 4500-0 G	
Industrial (metals, metalloids, cyanide, oils, grease)	S (for industrial basins)	EPA 200.7/200.9 EPA 1664 Ecology NWTPH-Gx/Dx	
Other pollutants-nutrients, pesticides, automotive fluids	S	EPA 300.0 SM 2540 D	

Key:

B = basic parameter to be analyzed at all sites

R = key parameter to identify source of illicit discharge in a typical residential basin

S = possible supplemental parameter

I = key parameter to identify source of illicit discharge from an industrial/commercial area

Immediate Response Procedures

The field crew should be prepared to take immediate action in the event of encountering one of the following situations:

- Individuals actively in the process of introducing possible illegal substances or materials to the storm drain system
- Very strong chemical odor emanating from storm drain system
- Presence of fumes or smoke emanating from storm drain system
- Visible significant stream of a controlled chemical or petroleum product flowing in storm system or downstream waters
- Large chemical plume in stream or lake downstream of a City outfall
- Any condition that poses or could pose an immediate threat to property, human health or safety, or aquatic life.

The crew should take the following steps if one of the above situations is encountered:

- 1. Ensure crew and public safety by instructing people to stay clear of the area.
- 2. Call 911 to report active illegal dumping or potential fire or significant chemical incident.
- 3. Call the City's customer response number at 360-537-3393 to report a possible illegal discharge.
- 4. The following offices must all be called if an unauthorized discharge of oil or hazardous material such as a spill has occurred:
 - a) The National Response Center at 1-800-424-8802;
 - b) Washington Emergency Management Division at 1-800-OILS-911; and
 - c) Washington State Department of Ecology Southwest Regional Office at 1-360-407-6300.
- 5. If a spill is encountered the following information should be recorded if possible:
 - a) Where is the spill?
 - b) What spilled?
 - c) How much spilled?
 - d) How concentrated is the spilled material?
 - e) Who spilled the material?
 - f) Is anyone cleaning up the spill?
 - g) Are there resource damages (e.g. dead fish or oiled birds)?
 - h) Who is reporting the spill?
 - i) Your contact information?
- 6. If possible isolate or contain visible chemical pollution in the effected water body with any materials that are accessible. For small discharges earth dams, absorbent pads, and containers may be useful to contain part of the illicit

discharge.

7. Take detailed notes and photos/video for subsequent investigation by City or other agencies.

At a minimum, follow-up work includes contacting the Washington State Department of Ecology – Southwest Office (see phone number above) to determine if any additional reporting or investigative actions are necessary.

For incidents not determined to be emergencies, the City should investigate or refer to the appropriate agency any complaints, reports, or monitoring information that indicates a potential illicit discharge, spill, or illegal dumping.

Isolating Illicit Discharges (Source Tracing)

The City's current hotline will continue to be an effective tool for locating illicit discharges. However, in situations where outfall screening identifies an illicit discharge several methods can be used to trace to the source of the illicit discharge. Tracing techniques include visual inspections of drainage structures and lines, dye testing, damming lines to isolate areas, video inspection, indicator monitoring, smoke testing, and optical brightener monitoring traps. Other more elaborate approaches include using remote sensing tools to identify soil moisture, water temperature, and vegetation anomalies associated with failing septic systems and tracking illegal dumping activities. The most common approach for the City will likely rely upon visual inspections of the catch basins in the storm line above the outfall in which an illicit discharge is suspected.

Several resources exist to assist in evaluating the likely source of an illicit discharge. Generally, the sources are washwater, sanitary sewer or septage, potable water leak, animal contamination, illegal dumping, or industrial discharge.

Investigation and Response Procedures

Once an illicit discharge or illegal connection has been located, details about the discharge connection should be documented. Photographs and video may be helpful to record the location and nature of an illicit connection. The City should determine the name and contact information of the property owner.

The response by the City will vary greatly depending on the type, location, frequency, severity, and source of illicit discharge. In general, the City will have several options available to address a specific discharge. In most cases where the violator is identified it is expected that they will voluntarily comply with any action required by the City to eliminate the potential for further illicit discharges. When the violation is the result of an illegal connection from a building, the property owner should respond once they are made aware of the connection, the environmental consequences, the applicable regulations, and the recommended remedy. If the violation is a failing septic system the violation is transferred to the Grays Harbor County Health District for enforcement. These transferred violations are monitored closely by the City to assure compliance with permit requirements.

The City will prepare a letter to be sent to the property owner for any illicit discharge or illegal connection. Depending on the circumstances the letter will describe the findings of the investigation, the required remedy, the required deadline for compliance, technical resources, and the enforcement actions, fines, and legal actions that could ensue for non-compliance. The letter should also describe the relevant codes and laws. The letter should specify who the property owner should contact for additional information and to notify the City when the required remedy has been completed.

The City will conduct a follow-up inspection following notification that the required remedy has been completed.

Should the owner not remedy the discharge, the City may proceed to abate the violation as a public nuisance in accordance with established City nuisance abatement policies and procedures.

Public Education

Public Information

As part of the City's public outreach program, outreach material will be made available to the citizens. The education campaign will rely upon the City's website (http://www.aberdeeninfo.com), brochures, print ads, website ads, drain markers and/or fact sheets to make citizens aware of stormwater, water pollution, and inform them of the City's hotline for reporting on possible illegal dumping, connections, or discharges. Additionally, target audiences with a high risk as a potential source, such as auto shops, mobile businesses, and commercial property owners/managers may receive specialized educational material.

The City has established a customer phone number (360-537-3393) for reporting of spills or illicit discharges.

Reporting and Recordkeeping

Tracking (Spills, Inspections, and Public Comment/Feedback)

Tracking and documentation is a required part of the IDDE program (section S5C3e) and will be recoded on the appropriate form (see Appendix D).

IDDE inspections will be recorded on field forms (see Appendix B).

Public comment/feedback will be conveyed to the IDDE program manager to ensure that the program is responsive to citizen complaints. The public will be directed to either the program manager directly or the hotline if they have general comments they would like to make on the City's IDDE program.

Staff Training

Training Lead

For those staff responsible for implementing the IDDE program, on the job training will be managed by the City's IDDE program manager. The program manager will manage and assign training as described below and shown in the Training Summary Table below.

Detailed Training

Detailed training will be assigned to those individuals specifically involved in the immediate response procedures, source tracking of potential illicit discharges and sampling.

General Training

General training targets City field staff who may potentially see an illicit discharge including staff from the following departments: Street, Department of Community Development, Facilities Maintenance, Traffic, Sewer and Stormwater Maintenance and Parks. General training will be via PowerPoint presentation and printed material distributed to staff at staff meetings. DVD, print or webcast material may be distributed if the need arises as the program develops.

Preliminary training activities, a schedule and identification of those to receive training are listed in the following table.

Training Topic	Attendees	Estimated Number of Staff	Training Type and Frequency	Description
Illicit Discharge Detection and Elimination-progra m field staff	Any staff responsible forassessing outfalls	2	In-field training	This training is for staff that will beresponsible for field assessment of outfalls.
Illicit Discharge Detection and Elimination - general information	All field staff	30	PowerPoint, webcast, or informational brochure	This training will explain the IDDE program. Included will be information on how to identify and report suspected illicit discharges.

Appendix A – IDDE Ordinance

10 - 10

ORDINANCE NO.

AN ORDINANCE RELATING TO STORM AND SURFACE WATER MANAGEMENT, REPEALING CHAPTER 13.68 OF THE ABERDEEN MUNICIPAL CODE, ADOPTING A NEW CHAPTER 13.70, AMENDING ORDINANCE 5971, AND REPEALING ORDINANCES 6177, 6238, 6280, 6324, 6334, 6453.

WHEREAS, the state of Washington has imposed new state-wide storm and surface water management regulations that require updates to the city's current utility code to comply with the mandatory state standards; NOW, THEREFORE,

BE IT ORDAINED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF ABERDEEN:

SECTION 1. CODE CHAPTER REPEALED. Chapter 13.68 of the Aberdeen Municipal Code, being Ordinance 6177 as amended by Ordinances 6238, 6280, 6334, and 6453, is hereby repealed and replaced by a new Chapter 13.70 AMC as adopted in Section 2 of this ordinance.

SECTION 2. NEW CODE SECTION ADOPTED. The following Chapter 13.70 – "Storm and Surface Water Management" is hereby added to the Aberdeen Municipal Code:

Chapter 13.70 STORM AND SURFACE WATER MANAGEMENT

Sections:

- 13.70.010 Purpose.
- 13.70.020 Definitions.
- 13.70.030 Utility established.
- 13.70.040 Transfer of property.
- 13.70.050 Storm and surface water fund created.
- 13.70.060 Setting of fees and charges.
- 13.70.070 Applicability.
- 13.70.080 Review and approval of storm and surface water drainage plans.
- 13.70.090 Exemptions.

- 13.70.100 Variances.
- 13.70.110 Permit.
- 13.70.120 Permit conditions.
- 13.70.130 Minimum control and management requirements.
- 13.70.140 Design criteria.
- 13.70.150 Maintenance agreement.
- 13.70.160 Inspection.
- 13.70.170 Preventive maintenance.
- 13.70.180 Penalties.
- 13.70.190 Cross connections prohibited.
- 13.70.200 Illicit discharges prohibited.
- 13.70.210 Easements.
- 13.70.220 Appeals.

13.70.010 Purpose.

The purpose of this chapter is to protect, maintain, and enhance the public health, safety, and general welfare by establishing minimum requirements and procedures to control the adverse impacts associated with increased storm and surface water runoff. Proper management of storm and surface water runoff will minimize damage to public and private property, reduce the effects of development on land and stream channel erosion and sedimentation, assist in the attainment and maintenance of water quality standards, reduce local flooding, and maintain post-development, as nearly as possible, the predevelopment runoff characteristics, while meeting the Stormwater Management Manual for Western Washington as adopted by the Department of Ecology. This chapter also establishes a Storm and Surface Water System as a utility service of the city.

13.70.020 Definitions.

For the purposes of this chapter, the following definitions describe the meaning of the terms used in this chapter:

- A. "Adverse impact" means any deleterious effect on water or wetlands, including their quality, quantity, surface area, species composition, aesthetics or usefulness for human or natural uses which are or may potentially be harmful or injurious to human health, welfare, safety or property, to biological productivity, diversity or stability, or which unreasonably interfere with the enjoyment of life or property, including outdoor recreation.
- B. "Agricultural land management practices" means those methods and procedures used in the cultivation of land in order to further crop production and conservation of related soil and water resources.
- C. "Applicant" means any person, firm or governmental agency who executes the necessary forms to procure official approval of a project or a permit to carry out construction of a project.

- D. "Aquifer" means a porous water-bearing geologic formation generally restricted to materials capable of yielding an appreciable supply of water.
- E. "City engineer" means the city of Aberdeen Public Works Director or his or her designee.
- F. "Clearing" means the removal of trees and brush from the land, but shall not include the ordinary mowing of grass.
- G. "Detention structure" means a permanent structure designed to store runoff for discharge at rates approximating what would have occurred under predevelopment conditions.
- H. "Develop land" means to change the runoff characteristics of a parcel of land in conjunction with residential, commercial, industrial or institutional construction or alteration.
- I. "Developer" means a person, group or company engaged in land or property development or proposed development.
- J. "Director" or "Public Works Director" means the city of Aberdeen Public Works Director or his or her designee.
- K. "Drainage area" means that area contributing runoff to a single point measured in a horizontal plane which is enclosed by a ridge line.
- L. "Engineer" means a civil engineer or civil engineering firm that has been retained or employed by the city to perform engineering services.
- M. "Easement" means a grant or reservation by the owner of land for the use of such land by others for specific purpose(s), and which must be included in the conveyance of land affected by such easement.
- N. "Exemption" means those land development activities that are not subject to the storm and surface water management requirements contained in this chapter.
- O. "Flow attenuation" means detaining or retaining runoff to reduce the peak discharge.
- P. "Grading" means any act by which soil is cleared, stripped, stockpiled, excavated, scarified, filled or any combination thereof.
 - Q. "Infiltration" means the passage or movement of water into the soil surface.
- R. "Off-site storm and surface water management" means the design and construction of a facility necessary to control storm and surface water from more than one development.
- S. "On-site storm and surface water management" means the design and construction of systems necessary to control storm and surface water within an immediate development.
- T. "Retention structure" means a permanent structure that provides for the storage of runoff by means of a permanent pool of water or infiltration.
- U. "Sediment" means soils or other surficial materials transported or deposited by the action of wind, water, ice or gravity as a product of erosion.
- V. "Site" means any tract, lot or parcel of land or combination of tracts, lots or parcels of land which are in one ownership, or are contiguous and in diverse ownership where development is to be performed as part of a unit, subdivision or project.

- W. "Stabilization" means the prevention of soil movement by any of various vegetative and/or structural means.
 - X. "Storm and surface water management" means:
- 1. For quantitative control, a system of vegetative and structural measures that control the increased volume and rate of surface runoff caused by manmade changes to the land; and
- 2. For qualitative control, a system of vegetative, structural and other measures that reduce or eliminate pollutants that might otherwise be carried by surface runoff.
- Y. "Storm drainage plan" means a set of drawings or other documents submitted by a person as a prerequisite to obtaining a storm drainage permit, which contains all of the information and specifications pertaining to storm and surface water management.
- Z. "Stripping" means any activity which removes the vegetative surface cover, including tree removal, clearing, grubbing and storage, or removal of topsoil.
- AA. "Variance" means the modification of the minimum storm and surface water management requirements for specific circumstances where strict adherence of the requirements would result in unnecessary hardship and not fulfill the intent of this chapter.
- BB. "Watercourse" means any natural or artificial stream, river, creek, ditch, channel, swale, conduit, culvert, drain, or ravine, in and including any area adjacent thereto which is subject to inundation by reason of overflow or flood water.
 - CC. "Watershed" means the total drainage area contributing runoff to a single point.
- DD. "Wetlands" means an area that has saturated soils or periodic high groundwater levels and vegetation adapted to wet conditions and periodic flooding.

13.70.030 Utility established.

For the purpose of carrying out the provisions of this chapter there is created and established a storm and surface water drainage utility for the city of Aberdeen pursuant to chapters 35.67, 35.92, 90.03, and 90.54 RCW, and by Article 11, Section 11, of the constitution of the state of Washington. The primary purpose of this utility shall be the planning, design, construction, maintenance, administration, and operation of all city storm and surface water facilities and for overseeing the design, construction, and maintenance of improvements on private property where these may affect storm and surface water management. The utility shall be administered by the public works director. The city council is authorized to make funds available to the utility by appropriation, borrowing, or by other means in accordance with laws of Washington state, for the establishment maintenance, and operation of this utility.

13.70.040 Transfer of property.

All properties, property rights, and interests of every kind or nature owned or held by the city, however acquired, insofar as they relate to or concern storm or surface water facilities, are hereby transferred to the Storm and Surface Water Utility, including by way of examples and not limitation, all properties, rights and interest acquired by adverse possession or by

prescription in and to the drainage and storage of storm or surface waters over and under lands, watercourses, streams, ponds, and estuaries to the full extent of inundation caused by the largest storm or flood condition.

13.70.050 Storm and surface water fund created.

- A. Pursuant to state law, the city hereby declares its intention to designate the city's storm and surface water system as a utility and enterprise activity of the city to be supported all or in part by the imposition of user charges on all parcels of property within the city which discharge stormwater to the city's storm drainage facilities or are otherwise served by the city's storm drainage facilities.
- B. The city hereby establishes a special fund within the city's fiscal system to be known as "The Storm and Surface Water Fund", hereinafter referred to as the fund.
- C. All revenues from storm drainage user charges and other storm drainage related fees and charges as may be adopted by resolution shall be deposited to the fund.
- D. Expenditures from the Fund shall be limited to those expenditures for the improvement, repair, operation, maintenance, and administration of the storm drainage facility as defined by the public works director of the city of Aberdeen. The fund may also transfer funds to the general fund of the city that represent the reasonable and proportionate share of the cost of general city government support of the utility not covered by direct payments from the fund.

13.70.060 Setting of fees and charges.

- A. The city council shall by resolution establish a system of user charges for all parcels in the city.
- B. To the extent practicable, user charges shall be based on each parcel's expected rate and volume of stormwater runoff from a parcel.
- C. The city council may by resolution establish a charge for the connection of any parcel to the city's storm drainage facilities to reflect that parcel's fair share of the cost of the existing city storm drainage facilities serving the parcel.
- D. The public works director shall establish appropriate fees for the review and inspection of storm drainage facilities proposed and constructed by private development.

13.70.070 Applicability.

It is not intended that this chapter repeal, abrogate, or impair any existing regulations, easements, covenants, or deed restrictions. The provisions of this chapter shall be held to be minimum requirements in their interpretation and application and shall be liberally construed to serve the purposes of this chapter. When any provision of any other chapter of the city regulations conflicts with this chapter, that which provides more environmental protection shall apply unless specifically provided otherwise in this chapter.

13.70.080 Review and approval of storm and surface water drainage plans.

A storm and surface water drainage plan or application for a variance shall be submitted to the city engineer by the developer for review and approval for any proposed development, unless otherwise exempted. The storm and surface water drainage plan shall be accompanied by supporting computations, drawings and sufficient information describing the manner, location and type of measures in which storm and surface water runoff will be managed from the entire development. The information supplied by the developer shall be in conformance with the Stormwater Management Manual for Western Washington as prepared by the Department of Ecology. The developer is responsible for submitting a storm and surface water management plan which meets the design requirements provided by this chapter. No person shall develop any land for residential, commercial, industrial or institutional uses without having provided for appropriate storm and surface water management measures that control or manage runoff from such developments.

13.70.090 Exemptions.

- A. The following development activities are exempt from the provisions of this chapter and the requirements of providing storm and surface water management.
 - 1. Agricultural land management activities;
- 2. Additions or modifications to existing single-family detached residential structures;
 - 3. Developments that do not disturb over five thousand square feet of land area; or
 - 4. City of Aberdeen owned facilities and streets.

13.70.100 Variances.

The city engineer may grant a written variance from any requirement of this chapter if there are exceptional circumstances applicable to the site such that strict adherence to the provisions of this chapter will result in unnecessary hardship and not fulfill the intent of this chapter. A written request for variance shall be provided to the city engineer and shall state the specific variances sought and reasons for their granting. The city shall not grant a variance unless and until sufficient specific reasons justifying the variance are provided by the person developing land.

13.70.110 Permits – plan approval required.

A grading/fill permit, building permit, or other development permit may not be issued for any parcel or lot unless a storm and surface water drainage plan has been approved by the city engineer. The approved plan shall be become part of the permit and be enforced as an element of any development permit issued by the city.

13.70.120 Plan approval - conditions.

In granting the plan approval, the city engineer may impose such conditions thereto as may be deemed necessary to ensure compliance with the provisions of this chapter and the preservation of public health and safety. Any grading/filling permit, building permit, or other development permit issued by the city may be suspended or revoked, after written notice is given to the permittee, for any violations of the approved storm and surface water drainage plan.

13.70.130 Minimum control and management requirements.

The minimum storm and surface water control and management requirements shall be in accordance with standards adopted by the city and included in the Stormwater Management Manual for Western Washington.

13.70.140 Design criteria.

Storm and surface water systems shall be designed and constructed in accordance with the standards and specifications as set forth in the Standard Specifications for Road, Bridge and Municipal Construction published by the American Public Works Association (APWA) and the Washington State Department of Transportation, and Stormwater Management Manual for Western Washington published by the Washington State Department of Ecology.

13.70.150 Maintenance agreement.

Prior to issuance of a storm and surface water utility permit, the city shall require the applicant to execute an inspection and maintenance agreement binding on all subsequent owners of land served by the private storm and surface water drainage system. The maintenance agreement shall be recorded by the city. Such agreement shall provide for access to the system at reasonable times for regular inspection by the city or its authorized representative to ensure that the facility is maintained in proper working condition to meet design standards and any provisions established. The agreements shall include the right of the city to access the system to take such action as necessary to protect the public safety and health in any instance where the owner fails to make the appropriate correction. Such agreement may contain provisions for regular or special assessments.

13.70.160 Inspection.

- A. The developer will submit to the city a proposed construction schedule ten days prior to commencing construction. The city engineer shall conduct inspections and file reports for periodic inspections necessary during construction of storm and surface water management systems to ensure compliance with the approved plans. The developer shall notify the city upon completion of the project when a final inspection will be conducted.
- B. Any portion of the work which does not comply with city regulations will be promptly corrected by the developer, after written notice from the city. The notice shall set forth the nature of corrections required and the time within which corrections will be made.
- C. A final inspection shall be conducted by the city upon completion of the elements of the storm and surface water drainage plan to determine if the completed work is constructed in accordance with approved plan and this chapter. The developer shall supply an

"as-built" certification by a registered professional engineer licensed in the state of Washington to certify that the facility has been constructed as shown in the "as-built" plans and meets approved plans and specifications. The city will provide the developer with a written notification of the results of the final inspection.

13.70.170 Preventive maintenance.

- A. It shall be the responsibility of the developer or property owner to maintain all infiltration systems, retention, detention or other storm and surface water drainage structures as contained in the storm and surface water utility permit.
- B. The city shall annually inspect all infiltration systems, retention, detention or other storm and surface water drainage structures.
- C. If the inspection indicates improper maintenance, unsafe conditions, or danger to public health or safety, the city shall so inform the developer or property owner of those conditions as well as a schedule for remediation. The cost of such remediation is the cost of the developer or property owner. In any instance where the developer or property owner fails to make the appropriate correction, the city will take such action as necessary to protect the public health and safety. Any cost incurred by the city shall be recovered from the developer or property owner.

13.70.180 Penalties.

- A. Any person convicted of violating the provisions of this chapter shall be guilty of a gross misdemeanor. Each day that the violation continues shall be a separate offense.
- B. In addition to, or as an alternative to any criminal prosecution or other penalty or billable cost of abatement or inspection as provided by ordinance or statute, any responsible person who violates a provision of this chapter, or order of the director issued pursuant to this chapter, may be assessed a civil penalty under chapter 1.12 AMC.
- C. In addition to imposition of a civil penalty, the director shall have the authority to order any responsible person to stop work if the work does not conform to the permit requirements and the severity is determined to be sufficient to warrant such action. The stop work order shall be issued in accordance with the procedures set forth in 1.12 AMC for notices and orders. Failure to comply with the terms of a stop work order shall result in enforcement actions including, but not limited to, the issuance of a civil penalty.
- C. In addition, the city may institute injunctive, mandamus or other appropriate action or proceedings at law or equity for the enforcement of this chapter or to correct violations of this chapter, and any court of competent jurisdiction shall have the right to issue restraining orders, temporary or permanent, injunctions or other appropriate forms of remedy or relief.
- D. Any person who, through an act of commission or omission, aids or abets in the violation shall be considered to have committed a violation.

13.70.190 Cross connections prohibited.

The installation or maintenance of any cross connection, meaning a connection between any storm and surface water drainage system and any sanitary sewer system, is prohibited. Any such cross connections now existing, or hereafter installed, are declared to be public nuisances and shall be abated by the Director in the manner provided by chapter 8.08 AMC.

13.70.200 Illicit discharges prohibited – certain discharges allowed – conditions.

- A. The stormwater system of the city of Aberdeen, natural and artificial, may only be used to convey stormwater runoff and discharges meeting the permit conditions within a current National Pollutant Discharge Elimination System Permit approved by the Washington State Department of Ecology. Except as provided in subsections B and C below, no person shall throw, drain or otherwise discharge, cause or allow others under it s control to throw, drain or otherwise discharge into the stormwater system any materials other than stormwater.
- B. The following discharges into the stormwater system are permitted provided the following conditions are met:
- 1. Discharges from potable water sources, including waterline flushing, hyper chlorinated waterline flushing, fire hydrant system flushing and pipeline hydrostatic test water. Planned discharges shall be dechlorinated to a concentration of 0 1 ppm or less, pH adjusted, if necessary (to meet water quality standards) and volumetrically and velocity controlled to prevent re-suspension of sediments in the stormwater system. As an option to dechlorinating, planned discharges from potable water sources may be discharged directly to the municipal sanitary sewer system in a manner approved by the Director. Planned discharges of waterline and hydrant system flushing need not be dechlorinated at the point of discharge is the discharge methods, location, or dilution will result in a pH concentration less than 0.1 ppm at the point the water would enter a natural drainage channel.
- 2. Discharges from lawn watering and other irrigation runoff. Reasonable steps shall be taken to minimize runoff including limiting duration and over-spray.
- 3. Dechlorinated swimming pool discharges. The discharges shall be dechlorinated to a concentration of 0.1 ppm or less, pH adjusted, and re-oxygenized if necessary, and volumetrically and velocity controlled to prevent re-suspension of sediments in the stormwater system and the property owner shall obtain permission from the Director, Swimming pool cleaning waste water and filter backwash shall not be discharged to the stormwater system.
- 4. Street and sidewalk wash water, water used to control dust, and routine external building wash down that does not use detergents. To avoid washing pollutants into the stormwater system, the discharge must minimize the amount of street wash and dust control water used. At active construction sites, street sweeping must be performed prior to washing the street.
- 5. Other non-stormwater discharges. The discharges shall be in compliance with the requirements of the stormwater pollution prevention plan for the discharges as reviewed and approved by the City.

- 6. Any discharges from a construction site. Discharges must be in conformance with the stormwater pollution prevention plan (SWPPP) reviewed by the City.
- 7. Combined sewer overflow (CSO) discharges. This discharge must be in conformance with a current National Pollution Discharge Elimination System Permit, approved by the Washington State Department of Ecology.
 - C. The following categories of non stormwater discharges are specifically allowed:
 - 1. Diverted stream flows;
 - 2. Rising ground waters;
 - 3. Uncontaminated ground water infiltration (as defined at AMC 13.52.390);
 - 4. Uncontaminated pumped ground water;
 - 5. Foundation drains;
 - 6. Air conditioning condensation;
 - 7. Irrigation water from agricultural sources that is commingled with urban stormwater;
 - 8. Springs;
 - 9. Water from crawl space pumps;
 - 10. Footing drains;
 - 11. Flows from riparian habitats and wetlands:
 - 12. Non stormwater discharges covered by another NPDES permit;
- 13. Discharges from emergency fire fighting activities in accordance with the city of Aberdeen Stormwater NPDES Phase II Permit Section S2 Authorized Discharges. The city's Stormwater NPDES Phase II Permit is available to view in the office of the Director.
- D. Except as provided in this section, no person shall use the stormwater system, directly or indirectly, to dispose of any solid or liquid matter other than stormwater. No person shall make or allow any connection to the stormwater system which could result in the discharge of polluting matter. Connections to the stormwater system from the interiors of structures are prohibited. Connections to the stormwater system for any purpose other than to convey stormwater or groundwater are prohibited and shall be eliminated.
 - E. Stormwater discharge into the sanitary system is prohibited exceptions.
- 1. No person shall discharge or cause to be discharged any stormwater, surface water, ground water, roof runoff, subsurface drainage, uncontaminated cooling water, or unpolluted industrial process waters into any sanitary sewer, unless otherwise approved by the Director based on lack of feasible alternatives or unless the discharge meets the condition outlined in AMC 13.52.390.
- 2. No person shall make connection of roof downspouts, exterior foundation drains, area drains, or other sources of stormwater surface runoff or groundwater to a building sewer or building drain which in turn is connected directly or indirectly to a public sanitary sewer, unless such connection is otherwise approved in writing by the Director based on lack of feasible alternatives or other appropriate factors.
- F. Stormwater shall be discharged to such sewers as are specifically designated as combined sewers or storm sewers, or to a natural outlet approved by the Director. Storm

drainage from hard-surfaced or graded areas, such as parking lots, service station yards, and storage yards, shall enter the public storm sewer system or other outlet approved by the Director and as required by this Chapter and as such facilities are available. Such storm drainage shall not be connected to or allowed to enter a sanitary sewer, unless otherwise approved in writing by the Director based on lack of feasible alternatives or other appropriate factors

13.70.210 Easements.

All public storm drainage systems shall be required to be located within a recorded public storm drainage easement or public right-of-way. An unobstructed ingress/egress maintenance easement shall be provided for city access to said storm drainage facilities. The minimum width of the required drainage easement shall be adequate to encompass all facilities and include room for access and maintenance, as determined by the city.

13.70.220 Appeals – filing deadlines.

- A. Any billing statement, charge, or other fee assessed under this chapter may be appealed to the Director. The appeal may be decided informally, without a hearing, or in the sole discretion of the Director an informal hearing may be held. The Director's decision shall be in writing. The Director's decision shall be the final determination unless a written notice of appeal is filed with the Finance Director within fourteen days of the Director's decision. Appeals from the Director's decision shall be heard by the city council. The city council's decision on appeal shall be the final determination of the city.
- B. Any appeal from the refusal to approve a storm and surface water drainage plan shall be considered in the same manner as an appeal from the denial of the development permit being applied for.
- C. Any civil enforcement action taken under this chapter, that does not fall within subsections A or B of this section, may be appealed to the Director in the same manner as provided for appeals under chapter 1.12 AMC.

SECTION 3. CODE SECTION AMENDED. Ordinance 5971, in part, codified as AMC 1.12.050E, is amended to read as follows:

Appeal to Superior Court. An appeal of the decision of the board must be filed with Superior Court within ten twenty-one calendar days of the date of mailing of the decision of the board to the appellant or is thereafter barred.

SECTION 4. SAVINGS CLAUSE. Ordinance 6177, as amended, which is repealed by this ordinance, shall remain in force and effect until the effective date of this ordinance.

SECTION 5.	SEVERABILITY.	Should any section, sub	section, paragraph, sentence,			
clause or phrase of	this ordinance or its	application to any pers	son or situation be declared			
unconstitutional or invalid for any reason, such decision shall not affect the validity of the						
remaining portions of	this ordinance or its ap	oplication to any other p	erson or situation.			
SECTION 6.	PUBLICATION BY	SUMMARY. The Fi	nance Director is authorized			
and directed to publis	h the attached summar	y in lieu of this ordinanc	e.			
SECTION 7.	EFFECTIVE DATE	This ordinance shall	take effect immediately upon			
its passage, signing, a	and publication.					
PASSED and	APPROVED this	_ day of	, 2010.			
			Bill Simpson, Mayor			
ATTESTED:						
Wathern Chalman T.						
Kathryn Skolrood, Fi	nance Director					

Appendix B – Illicit Discharge Incident Reporting Forms

IDDE Standard Operating Procedure for Reporting Incidents

Use the Illicit Discharge Incident Report Sheet and the Illicit Discharge Incident Investigation / Resolution Sheet.

- 1. Document responder information in space provided, including the date and time call was reported.
- 2. Document reporter information.
- 3. Document the location that the incident occurred along with a written narrative description of the location.
- 4. Document any problem indicators that have been reported along with a written narrative explaining the severity of the indicators.
- 5. Document the suspected violator's information, if known.
- 6. Determine the appropriate tracking number for the incident and ensure it is attached to both the *Illicit Discharge Incident Report Sheet* and the *Illicit Discharge Incident Investigation / Resolution Sheet*.
- 7. Document who investigated the site, if a site investigation was not completed document why it was not needed.
 - a. During the site investigation determine the source location of the Illicit Discharge if possible.
 - b. If source location is not readily identifiable trace the discharge back through the system as far as possible though visual inspections, opening manholes, using mobile cameras, collecting and analyzing water samples, or any other inspection procedure available.
 - c. Apply booms and absorbent pads to stabilize the situation if possible.
 - d. If discharge is large and unable to be stabilized, contact the Stormwater supervisor immediately and state that you have an emergency. Vactor truck will be dispatched.
- 8. When site has been stabilized, write a narrative description of the site assessment in the space provided.
- 9. Notify all required parties
- 10. Determine the environmental remediation action plan and document all actions taken by the COA
- 11. If the illicit discharge was caused by intentional negligence or willful neglect, and the responsible party is known, contact the City of Aberdeen Code Enforcement Department for legal actions.

Illicit Discharge Incident Report Sheet						
Responder	Information					
Call Taken By	**************************************	Ca	ıll Date:	Call Time:		
☐ Hotline	Call					
☐ Report	ed by other Depar	tment or Agency				
Reporter In	formation					
Incident Time	9:	In	cident Date	· · · · · · · · · · · · · · · · · · ·		
Caller Contac	t Information:			_		
Organization:		···		_		
Precipitation		24	ł / 48 hours			
Incident Lo						
	ess or Outfall #:		titude and Longitude			
Closest Street			earby Landmark:			
	tion Description	Secondary Location I				
ŀ	Corridor acent to stream)	☐ Outfall	☐ In-stream Flow	☐ Along banks		
☐ Upland		☐ Near storm dra	ain 🔲 Near other water	r source		
	adjacent to stream)		(Stormwater pond, wet	tland, ect.)		
Narrative des	cription of location	on:				
				······································		
						
		D		The second secon		
	blem Indicator					
Dumpir		Oil / solvents / o	chemicals	age		
Stroom Cor	rater , suds, ect.	│	on			
Odor	None		Rancid / Sour	Dotroloum (gag)		
Odor	Sulfide	Sewage Musky		in "Narrative" section		
Annogranco	□ Normal	Oil Sheen	Cloudy	Turbid		
Appearance		cribe in "Narrative" se				
Floatables	None None	Sewage	Litter	☐ Dead Fish		
rivatables	Algae	Suds		in "Narrative" section		
Narrative de	scription of proble		Other: Describe	in Narrative Section		
Namauve ues	scription of proble	muicators:		<u> </u>		
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	<u></u>					
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-	-					
Sucposted Vi	olator (name many	and ourselviele deservices.				
Suspected VI	otator (name, persor	nal or vehicle description, li	cense plate number, ect.J			
-	<u> </u>			<u>.</u>		
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		<u> </u>		*		

Tracking Number (from top of sheet 2)

Spill Type	Examples	Call / Notify All Listed
Emergency Situation	Sewage Main Break	911
	Gasoline Tank Rupture	National Response Center
An immediate and severe threat to	Spill with overwhelming chemical odor	800-424-8802
human health or the environment	Gas / Oil spill in a stream, lake or river	WA. Emergency Management
	Gas / Oil spill flowing into a catch basin	800-0ILS-911
Spills of gas, oil and hazardous	Gas / Oil spill into a ditch	Ecology SW Regional Office
substances in any amount	Motor oil spill flowing into a catch basin	360-407-6300
		Department of Health - Sewage
		360-236-3330
		Aberdeen Public Works
		360-537-3393
Non Emergency Situation	Leaking septic system	Aberdeen Street Department
	broken side sewer	360-537-3241
Small / Medium amount of known	Oil or vehicle fluids on pavement or gravel	Aberdeen Sewer Department
substance (generally 1 drop to 5	Concrete washout	360-537-3285
gallons and the responder is	Muddy construction site runoff	Department of Health - Sewage
able to handle the situation	Suds	360-236-3330
	Paint	

	Illicit Discharge Incider	nt Investigation / Resolu	tion Sheet
Tracking Numbe	r (Assign tracking numbers acco	ording to sequential order for year and	data of occurrence)
#		1.1.20.2011 first incident of 20	
Site Assessment	/ Investigation	2.12.20.2012 In Be metadite of Be	ori occurring juni. 20, 2011
Site Investigated b			
Date:	Time:		
Investigation Resu	lts:		<u> </u>
	nvestigation Made	-	· 11
	Reason:		
Refe	rred to different department or ag	ency	· · · · · · · · · · · · · · · · · · ·
	Contact information	-	
	Reason:		
☐ Inve	stigated - No Action Required		
	Reason:		
Inve	stigated - Action Required		
	Complete next section		
Narrative descript	ion of site assessment:		
Environmental F	lemediation Action Plan		
	-		· · · · · · · · · · · · · · · · · · ·
Enforcement Act	ions (if any)		
			· · · · · · · · · · · · · · · · · · ·
Correspondence			
Agency	Contact Person	Date / Time	Phone Number
1			
2			
3			
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5			
6			
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8			
9			
10			711

Illicit Discharge Incident Report Sheet								
Responder	Info	rmation			-	·		
Call Taken B		Left Spr.	Nec	<u> </u>	Call D	ate:	2/29/2012	Call Time:
☐ Hotlin	e Call		<u> </u>				-1-1 (10. 7	dan Time.
Repor	ted by	other Depar	tment	or Agency	_			
Reporter I	nforn	nation						
Incident Tim					Incide	ent Da	ite	<u> </u>
Caller Contac		rmation:	An	eny mous				
Organization		NA						
Precipitation			 	- <u> </u>	24 / 4	8 hou	ırs	
Incident Lo			<u> </u>	<u> </u>				
Stream Addr							d Longitude	
Closest Stree				City			ıdmark:	<u> </u>
Primary Loca			Seco	ndary Locatio	n Desc	riptic		
				Outfall		╽╚	In-stream Flow	│
(In or ad				NI			NT .1	
1 -				Near storm	araın		Near other water	
Narrative de		nt to stream)			_		(Stormwater pond, wetla	nd, ect.)
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a		e City o	<u>← ₩</u>	rbendeen	· (A)	تركؤه	d the Info a	long to County
	<u>, u</u>	∞31795						
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Upland Pro	blen	n Indicator	Desci	ription				
Dumpii	ıg		W.	Oil / solvents	/ chen	nicals	Sewag	re
		suds, ect.		Other:				
	rido		ndica	tor Descrip	tion			
Odor		None		Sewage			Rancid / Sour	Petroleum (gas)
	<u> </u>	Sulfide		Musky			Other: Describe in	"Narrative" section
Appearance		Normal		Oil Sheen			Cloudy	☐ Turbid
	Ц.		ribe i	n "Narrative"	sectio	n		
Floatables		None	Щ.	Sewage			Litter	☐ Dead Fish
		Algae		Suds			Other: Describe in	"Narrative" section
Narrative de								
0	1 (eaking	£	on dans	2500	<u> 1</u>	Jehicle into	ditch.
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Sugnested Vi	olotor							
suspected vi	oiatoi	(name, person	al or ve	hicle description	, license	plate i	number, ect.)	
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Tracking Number (from top of sheet 2) 2.2.29.2012

Illic	cit Discharge Incident Inve	estigation / Resolu	tion Sheet	
Tracking Number	(Assign tracking numbers according to	sequential order for year and	date of occurrence)	H
# 2.2.29.2012			011 occuring Jan. 20, 2011	
Site Assessment / Invest				
Site Investigated by:				
Date:	Time:			
Investigation Results:				
☐ No Investiga Reaso				
	lifferent department or agency			
	ct information			
Reaso	on: Alt in H. C.l.	of the land		
Investigated	on: Not in the City - No Action Required	or Moeralen		
Reaso	on:			
☐ Investigated	- Action Required			
Comp	lete next section			
Narrative description of sit	e assessment:			
Environmental Remedia	tion Action Plan	· · · · · · · · · · · · · · · · · · ·		
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		<u></u>	-	
Enforcement Actions (if a	(ny)			
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Correspondence				
Agency	Contact Person	Date / Time	Phone Number	
1 WSDOE	Kathy Armstrong			
2 GHC	Mark Cox			
3 GHC	Jim Celich			
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9	 			
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		Illicit Discha	irge Incid	ent R	eport Sheet		
Responder	Information						
Call Taken By		LAIRD	Call D	ate:	1-22	Call Time:	1:00 P.m.
Hotline	e Call						
	ed by other Depa	artment or Agen	су				
	nformation						
	e: /2:45	P.m.	Incide	ent Da	te /-22		
	t Information:						
<u>Organization</u>							
Precipitation			24 / 4	8 hou	ırs		
Incident Lo							
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	t Address: Me				dmark: Davy	Quenn	
	tion Description		cation Desc	riptic		T (=	
	Corridor	☐ ☐ Outfall			In-stream Flow	7 □ Alon	g banks
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-		Near st	orm arain		Near other wat		
	t adjacent to stream) scription of locat	ion: 4		<u> </u>	(Stormwater pond, v		
	blem Indicato	r Description		·			
Dumpir		Oil / sol	vents / chen	nicals	☐ Se [•]	wage	
☐ Wash w	vater , suds, ect.	Other:		_			
	ridor Problem						
Odor	None	☐ Sewage			Rancid / Sour		oleum (gas)
	Sulfide	☐ Musky			Other: Describ		
Appearance	Normal	Oil She		\Box	Cloudy	☐ Turb	id
T1 . 11		scribe in "Narra		n			
Floatables	None	Sewage		片	Litter		l Fish
NT	Algae	Suds			Other: Describ		
Narrative de:	scription of prob	lem indicators:	91	veen	show a	ound storm	draw
							
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Tracking Number (from top of sheet 2) 1.1.22.2012

	Illicit Discharge Incide	ent Investigation / Resol	ution Sheet
Tracking Number	(Assign tracking numbers ac	cording to sequential order for year ar	id date of occurrence)
# 1,1.22.7		: 1.1.20.2011 first incident of 2	
Site Assessment /			
Site Investigated by	: Jeff Springer !	Dale Laird	
Date: 1/22/		12:45 PM	
Investigation Result	ts:		
No In	vestigation Made Reason:		
Refer	red to different department or a	agency	
	Contact information	igency	
	Reason:		
Inves	tigated - No Action Required		
	Reason:		
Inves	tigated - Action Required		
	Complete next section		
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draining		bi by engine cook	ant on ground
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Enforcement Acti	Ons (if any)		
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Correspondence			
Agency	Contact Person	Date / Time	Phone Number
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į.			Illicit Discharge	Inciden	t Report S	Sheet	
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V	Report	ed by other Depar	tment or Agency	£ι	0/099	ERTS#	630453
Repo		formation			 		
Incid	ent Tim	e:		Incident	Date		-
Calle	Contac	t Information:	Mike Dale				
	nization						
		(inches)		24 / 48	iours		
	lent Lo						
		ess or Outfall #:	Alder creek		and Longit		
		t Address:		Nearby :	Landmark:	lewis st.	100 N. of Huntley
		tion Description	Secondary Locatio	n Descrij		 	· · · · · · · · · · · · · · · · · · ·
		Corridor	☐ Outfall		」 In-stre	am Flow	Along banks
		acent to stream)		,	7		
	Upland		│	drain L		ther water	
Manne		adjacent to stream)	. 0/ /	1 / /		ater pond, wetla	
Nai i	T	scription of locatio	n: Stormwater	ditch	that pa	nallels 1	PWIS St. OU
	ue u	restside of	Street		<u>.</u> .		
			-		<u> </u>		
			<u> </u>	_		_	
-			-				
Upla	nd Pro	blem Indicator	Description		 -;		
	Dumpir		Oil / solvents	/ chemic	als	Sewag	TP
		ater , suds, ect.	Other:	7 01101110			5°
Stre			ndicator Descrip	tion			
Odor		None	Sewage		Rancid	/ Sour	Petroleum (gas)
		□ Sulfide	☐ Musky		Other:	Describe in	n "Narrative" section
Appe	arance		☐ Oil Sheen		Cloudy	7	Turbid
		/	cribe in "Narrative"	section			
Float	ables	<u> </u>	Sewage		Litter		☐ Dead Fish
	<u> </u>	∐ Algae			Other:	Describe in	n "Narrative" section
Narra	ative des	scription of proble	m indicators:	エもの	my chun	ks of de	ad fish that
w_{ϵ}	ere -	hown into	ditch. fish	was c	aught Si	omplace	else and scraps
	vere	discarded	into ditch	. I	did ust	See an	4 trapped
<u></u>	almo		it is gassi	ole de	e to c	ver lan	d flooding
	ause d	by GHC	Stream dive	W104	Project.	•	<u> </u>
Susp	Suspected Violator (name, personal or vehicle description, license plate number, ect.)						
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				-			·
<u> </u>							
L	=						

Tracking Number (from top of sheet 2) 2. 11.17.2011

Tracking Number	[Assign tracking numbers	ding to go groundied and a con-	P 3-11 C
# 2.11.17.2011	(Assign tracking numbers accord		and date of occurrence) f 2011 occuring Jan. 20, 201
Site Assessment / Inve	extination	1.20.2011 Hrst incident of	1 2011 occuring Jan. 20, 201
Site Investigated by:			<u> </u>
Date: 11/18/11	Rick Songder Time: 8	. 2. A.L.	
Investigation Results:	Time. 8	: 30 AM	
	gation Made		
	son:		
	o different department or agei	ncv	
	tact information	y	
	son:	•	
	ed - No Action Required		
Rea	son: N. f.sh kill fou	ud. Ma Arabla	
Investigate	ed - Action Required	nd. 110 problen	15 FOUND.
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Update L. Update L. Enforcement Actions (Correspondence Agency	Sa Cox on Findu ifany) None Contact Person	ngs in field	Phone Number 360-249-1
Updated L. Updated L. Enforcement Actions (Correspondence Agency 1 f.sh & W. Idlife	Contact Person Any Spann	ngs in field	Phone Number 360-249-1
Correspondence Agency 1 fish & wildlife 2 Ecology 3	Contact Person Any Spann	ngs in field	Phone Number 360-249-1
Correspondence Agency 1 fish & Wildlife 2 Ecology 3 4 5	Contact Person Any Spann	ngs in field	Phone Number 360-249-1
Correspondence Agency 1 fish & wildlife 2 Ecology 3	Contact Person Any Spann	ngs in field	Phone Number 360-249-1
Correspondence Agency 1 fish & Wildlife 2 Ecology 3 4 5 6 7	Contact Person Any Spann	ngs in field	
Correspondence Agency 1 fish & wildlife 2 Ecology 3 4 5 6 7 8	Contact Person Any Spann	ngs in field	Phone Number 360-249-1
Correspondence Agency 1 fish & Willife 2 Ecology 3 4 5 6 7	Contact Person Any Spann	ngs in field	Phone Number 360-249-1

		Illicit Discharge	Incide	ent R	eport Sheet	
Responder	Information				· · · · · · · · · · · · · · · · · · ·	
Call Taken By		ed co	Call D	ate:	2/2/2011	Call Time:
Hotline	Call	7				
✓ Report	ed by other Depar	tment or Agency	•			
Reporter In	formation		-			
Incident Time	: NA		Incide	nt Da	ate 2/1/2011	1
Caller Contac	t Information:	Lucky Campb	e11	<i>\$</i>	Mike Osweil	er (DOE)
Organization:	- 1755V	eswer		•	-	-
Precipitation	<u> </u>	A	24 / 4	8 hou	ırs	
Incident Lo	<u> 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 </u>		- ₁			
	ess or Outfall #:				id Longitude	
Closest Street		Bellvue Ave			ıdmark:	<u>_</u>
	tion Description	Secondary Locati	on Desc	riptio		· · · · · · · · · · · · · · · · · · ·
1	Corridor	☐ Outfall			In-stream Flow	☐ Along banks
	acent to stream)	Near storm	1 .			
Promis		☐ Near storm	arain		Near other water	
	adjacent to stream)				(Stormwater pond, wetl	and, ect.)
	cription of location				· · · · · · · · · · · · · · · · · · ·	1 0 1 1 6 1
Home loca	ted at 1900	Bellive the Ma	3 9 1	<u>eakii</u>	ng underground	tuel tank fuel
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Upland Pro	blem Indicator	Description	, ·· , ·· <u>.</u>			
☐ Dumpin	g	Oil / solvent	s / chen	nicals	☐ Sewa	ge
	ater , suds, ect.	Other:	•		·	
Stream Cor	ridor Problem l	Indicator Descri	ption			
Odor	None	☐ Sewage			Rancid / Sour	Petroleum (gas)
	Sulfide	Musky			Other: Describe i	n "Narrative" section
Appearance	☐ Normal	☑ Oil Sheen			Cloudy	☐ Turbid
		cribe in "Narrative	" sectio	n		
Floatables	None	Sewage			Litter	Dead Fish
	Algae	Suds		Ш	Other: Describe i	n "Narrative" section
Narrative des	scription of proble	em indicators:		•	- 1	
		7				<u></u>
			·			
						<u>.</u>
	···	н				·
	·	nal or vehicle description			•	
M.ch.	ael Sween	ey 1400 Re	lluve ,	Ave.	, Aberdeen, W	H. 98520
					 	
						w.·
		1				
						

Tracking Number (from top of sheet 2) 1.2.1.2011

Spill Type	Examples	Call / Notify All Listed		
Emergency Situation	Sewage Main Break	911		
	Gasoline Tank Rupture	National Response Center		
An immediate and severe threat to	Spill with overwhelming chemical odor	800-424-8802		
human health or the environment	Gas / Oil spill in a stream, lake or river	WA. Emergency Management		
	Gas / Oil spill flowing into a catch basin	800-OILS-911		
Spills of gas, oil and hazardous	Gas / Oil spill into a ditch	Ecology SW Regional Office 360-407-6300		
substances in any amount	Motor oil spill flowing into a catch basin			
		Department of Health - Sewage		
		360-236-3330		
		Aberdeen Public Works		
		360-537-3393		
Non Emergency Situation	Leaking septic system	Aberdeen Street Department		
	broken side sewer	360-537-3241		
Small / Medium amount of known	Oil or vehicle fluids on pavement or gravel	Aberdeen Sewer Department		
substance (generally 1 drop to 5	stance (generally 1 drop to 5 Concrete washout			
gallons and the responder is Muddy construction site runoff		Department of Health - Sewage		
able to handle the situation	Suds	360-236-3330		
	Paint			

Illicit Discharge Incident Investigation / Resolution Sheet						
Tracking Number (Assign tracking nu	umbers according to sequential order for year and date of occurrence)					
	xample: 1.1.20.2011 first incident of 2011 occuring Jan. 20, 2011					
Site Assessment / Investigation						
Site Investigated by: Rick Sanade	v, Steve Randich					
Date: 2/2/11	ime: 3:20					
Investigation Results:		-				
No Investigation Made Reason:						
Referred to different departm	ent or agency					
Contact information	iont of agency					
Reason:						
Investigated - No Action Requ	lired	<u>_</u>				
Reason:	m cu					
Investigated - Action Required	d					
Complete next section						
Narrative description of site assessment:	Oil is Showing up at Mr. Campbells lot.	lote				
of Sheen and Oil bails	1.	-0 (2				
Environmental Remediation Action Plan	n					
Private property. We a	placed booms and oil Sucks in areas Al	.0				
oil was entering the	e private drain system. Also placed by	animo				
in the (2) Mayboles	below the site that ourry Stormount	en to				
wish kah river.	7 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00 10				
		_				
DIE approved reme	diation plan attached.					
	A LE PLANTE (BALANCE)					
Enforcement Actions (if any)						
WSLOE is handling	the remediation Glay approval.					
	O SOL SOLETION					
Correspondence						
Agency Contact Person	Date / Time Phone Number					
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Northwest Testing Company, Inc.

CONSTRUCTION TESTING and INSPECTION ENVIRONMENTAL CONSULTATION and ASSESSMENT

February 13, 2011

Mike Sweeney 1400 Bellevue Avenue Aberdeen, Washington 98520

RE: Sweeny Heating Oil Release, Aberdeen, Washington

Dear Mike-

As discussed Friday morning after our site walk-through with Dave Strong, engineering geologist with Bradley-Noble Geotechnical, and Jack Thompson, Thompson Leasing, I have formulated the following work plan to address the removal of the leaking heating oil tank located at your home, as well as cleanup of the tank site and spill path from the fuel release of this past February 01 (date approximate).

SCOPE of WORK:

- 1) Tank Removal and Site Assessment: The tank will be decommissioned and removed per applicable Department of Ecology's *Guidance for Site Checks and Site Assessments for Underground Storage Tanks*, to include inerting and removal of tank, lines, and any tank sludge. Disposal of the tank will be tracked with documentation provided. Contaminated soil will be removed and safely contained as necessary and transported from the site, disposition tracked with documentation provided. Upon confirmation of clean soil encountered in the excavation, the excavation will be re-filled with clean compacted soil / gravel. Analytical confirmation samples provided.
- 2) Spill Path, Sweeney Property: Following tank removal, we will attempt to work our way downhill to identify and trace the spill pathway from the tank using hand equipment (machetes, shovels, hand augers) as the excessive slope does not allow for heavy equipment.
 - a. *Pathway is identified:* Contaminated soil will be hand excavated and either contained in cells on the Campbell property (pending permission) or placed directly in truck for transport off site, disposition tracked with documentation provided. Upon confirmation of clean soil encountered in the spill path, the spill path area will be re-filled with clean compacted soil / gravel.
 - b. Pathway is not identified: If the pathway proves to be too deep to locate using hand equipment, a shallow monitor well will be installed down-slope on the Campbell property at the exact location where the free product welled up out of the ground (by the northeast corner of the shed). The monitor well would then be sampled on a quarterly basis to identify any further off-site migration of contamination. Well to be decommissioned after four consecutive quarters of contaminate elevations below Method A cleanup levels.
- 3) Spill Path, Campbell Property French Drain: Eco-blocks will be set in the Campbell

driveway (two) and the existing wooden retaining wall up slope of the base concrete retaining wall will be shored up. Following this, the gravel and contaminated soil in and surrounding the french drain along the north and west sides of the Campbell shed at the base of the hill will be removed with a vac-truck (not accessible to heavy equipment). We anticipate complete removal behind (west side) of the shed, then along the full east/west face of the retaining wall to the corner, and then north (upslope) as necessary, maybe a few feet as the gradient is moving uphill. Upon removal of impacted material, confirmation sampling every 50 linear feet.

- 4) Spill Path, Campbell Property Yard: The spill path will be followed down-gradient (south) of the shed approximately 60' to where it turned eastward and traveled another approximately 32' to the street drain. Removal of contaminated soil, confirmation sampling every 50', replace with clean soil.
- 5) Upon completion of the above work, power-wash the asphalt drive way in the spill trail that ran from the corner of the retaining wall down-gradient to the first street drain.

General Notes: Confirmation soil samples to be analyzed for total diesel-range petroleum hydrocarbons and for BTEX.

Please call me for any questions regarding our proposal or scope of work.

Cordially,

NORTHWEST TESTING COMPANY, INC.

Mark Robinson

Mark Robinson Licensed Professional Geologist Senior Field Inspector Registered Site Assessor/UST Decommissioner ACI/ICC Certified Concrete Technician



Mike Osweiler

Scarch Mail

Scarch the Web

Show

It looks like you have enabled Internet Exp Aberdeenwa.gov Mail works best if you turn this o

Mail

Contacts

GEICO Insurance Agent - www.GEICO.com/Local - Local Offices in Your Area For All

Tasks

Archive Spam

Delete

Move to Inbox

Labels

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Compose mail

Inbox (333)

Starred

Important

Sent Mail

Drafts (4)

1283 Monte Elma Rd

Claims

Complaints / Propos...

Follow up

Lab Testing

Misc

Phase II

Department of Eco...

permit comments...

Priority

Safety Clothes

Sign Shop

Sweeny Oil Spill

Training

4 more ▼

Rick Sangder

Search, add, or invite

Reg: 1314 N. I Street Sweeny Oil Spill X

lucky928@comcast.net to me

Rick,

Per our conversation, the phone numbers are as follows:

Mike Osweiler (Spill Responder; Response/Prevention Team) 407

Chris Mathews ERTS top guy 407-6388.

Chris was going to re-involve Mike O,...so he is probably the one w

Thank's again for your time, consideration, and thoughtful input.

Lucky Campbell

PS: Give me a call on a recent development... 589-6246

Reply

Forward

show deta

Rick Sangder to lucky928

I just got off the phone with Mike and he is going to set up a meeting with Chris Mat can discuss what is occuring up there. Mike said they were not aware that the spill containment area. I explained that I saw it in the expansion joints of your driveway some action on their part. If you have the pictures showing the oil coming out of the that would help our cause.

- Show quoted text -

Reply

Forward

show deta

lucky928@comcast.net to me

Rick,

I've been going over the photos I have, but the majority were given were taken by Mike O, so I know they are still on file at DOE). I hav that I recognize as oil in expansion joints, but they're not as clear a Daughter-in-law took some pics as well as some video clips...I will tomorrow and will get those too (I don't know what's on them ... she of dead earthworms that were coming out of the drains.

Again, I can't thank you enough for your sincere efforts. Please give guys are coming out here, so I am sure to be home (and awake!).

Powered by Gocgli

Lucky	
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noname.eml 5K <u>View</u> <u>Download</u>	
Reply Forward GEICO Insurance Agent - Local Off	ices in Your Area
For All of Your Insurance Needs. www.GEICO.com/Local	
Archive Spam Delete	Move to Inbox Labels Mo
1% full Using 358 MB of your 25600 MB	©2012 Google - <u>Terms of Service</u> - <u>Program Policies</u>

2/7/2012

Department of Ecology - Environmental Report Tracking System

ERTS # 624802

Followup

Inspector Information		<u>Wi</u>	nere did it	happen		Followup #1
Referral # 141637			Berth		Anchora	qe
✓ Lead Inspector OSWEILER, MIKI	E	Loc	ation Name			
Program/Organization SPILLS, PREVEN AND RESPONSE			eet Address ner Address	1400 BELLV	JE AVE	
* Region/Location SWRO				ABERDEEN	State WA	A Zip
# of Ecology Staff Over Action	time 🗌 Start Date	End Date	County		Region SWRO	'
FIELD RESPONSE - INVESTIGATION	2/2/2011	6/9/2011	Waterway WRIA#		Ty	ype
What happened S	pills Program Oil Spill?	N	Latitude		Longitue	de
Incident Date 2/1/2011		Т	opo Quad 1:	24,000 ABER	DEEN	
Medium SURFACE WATER-FRESH		Di	rection/Landr	mark (mile pos	st, cross roads, to	ownship/range)
Material PETROLEUM - DIESEL FUEL						
Quantity Unit 1 GALLON	Est	Pote	entially Re	esponsible	Party Inform	nation
	11		Check	t if the primary	PRP provided n	otice to Ecology
Source Regulated? UNDERGROUND STORAGE TANK		Prim	ary √ Name M	First 1ICHAEL	SWEENEY	Last
<u>Cause</u>		Busin	ess Name			
EQUIPMENT FAILURE		Stree	et Address 1	400 BELLEVU	JE AVE	*
		Othe	er Address			
			City A	BERDEEN	State WA	Zip
Activity			Phone		Ext	Type
UNKNOWN			E-mail s	weeney1400@	@comcast.net	••
Impact				,	-	
WATER POLLUTION						
Vessel						

<u>Narrative</u>

LUCKY CAMPBELL (360-5296246) @ 1022/02FEB11:

There was a diesel (fuel oil) spill from a fuel tank on property above Mr. Campbell's located at 1400 Bellevue Avenue, Aberdeen, WA (tank volume estimated to be 75-100 gallons). Fuel oil is leaking through scuppers (drains) at the toe of the retaining wall on the Campbell property. This spill was first noticed yesterday (01FEB11). Drainage from this retaining wall discharges to a residential storm drain and then off site to city storm drain.

Aberdeen Fire Department responded. The sloped property between Mr. Campbell and his neighbor has mountain beavers (rodents) that may have channeled fuel spill from the property above. Booms were deployed to storm drain beneath scuppers. Homes in the area were built in the 1950's.

JR STREIFEL/ABERDEEN FIRE DEPARTMENT (360-533-8765/532-1254) AM/02FEB11:

Fire Department responded yesterday to scene at 1314 North I Street, Aberdeen, WA. Retaining wall drain pipes were releasing heating oil on property at 1314 North I Street, Aberdeen, WA. Pettit Oil is to recover oil out of underground tank (at 1400 Bellevue Avenue) today. Property owner name/address is Mike Sweeney, 1400 Bellevue Avenue, Aberdeen, WA (360-533-4486).

MIKE SWEENEY 360-533-4486 @ 1048/02FEB11:

PLIA coverage? Pettit oil is checking--they pumped out the fuel oil tank on his property. (Andrea Unger checked with PLIA--this residence (1400 Bellevue Avenue) is not covered by PLIA).

ON SITE AT 1400 BELLEVUE AVENUE WITH JR STREIFEL/ABERDEEN FIRE DEPARTMENT @ 1230/02FEB11:

JR Streifel and I met with Michael Sweeney at his residence (1400 Bellevue Avenue-Aberdeen). Mr. Sweeney showed us the area in his back yard where his home heating oil tank is buried. There was no apparent staining or vegetation impact in the immediate area of this underground storage tank.

Per Mr. Sweeney this fuel tank has a 400 gallon capacity and received about 100 gallons last week—he estimated there were supposed to be 200-220 gallons of fuel in the tank. About 110 gallons of oil were recovered from this tank by Pettit Oil this morning, per Mr. Sweeney. (While at the Campbell residence around 1648/02FEB11 I learned from Mr. Sweeney an estimated 100 gallons of fuel oil were missing from his system—this tank was last filled on Wednesday (26JAN11) and prior to that it was filled on 10MAR10.)

Department of Ecology - Environmental Report Tracking System

ERTS # 624802

Mr. Sweeney said he has lived at this address for the past 4 years (+/-) and his house was built back in the 1950's. His fuel oil heating system is used to supplement an electric boiler system in his residence—there are also a couple of inserts in his house. Mr. Sweeney estimated he uses no more than 100 gallons of fuel oil annually.

Mr. Sweeney had no immediate plans with regard to assessing/remediating his underground fuel tank.

LUCKY CAMPBELL RESIDENCE 1314 NORTH I STREET-ABERDEEN WITH JR STREIFFER @ 1300/02FEB11:

Oil was observed coming out of the retaining wall adjacent to the shed on northwest corner of Campbell property (see photos on file with this ERTS). Oil & water absorbent socks were earlier applied along the lower edge of the retaining wall and were saturated apparently with diesel/fuel oil and water (see photos). These socks were later removed and replaced with oil absorbent sweep & boom (see photos). Land steeply slopes upward (northwesterly) from this retaining wall to the Sweeney residence. Drainage from this retention wall enters an onsite storm drain that discharges to the City of Aberdeen's stormwater system at the bottom (south end) of I Street.

There is a wooden fence (not a retaining wall, per Mr. Campbell) built atop and back from this concrete retaining wall—along this fence's east side it was noted the lower portion was bulging (see photos). Likewise there is a stone walled corner along the north side/west end of the Campbell property—the north part of this slate stone wall corner appears to jut out, possibly from local earth movement (see photos). Soil on top of the retaining wall's west end by the shed appeared to be oil saturated (see photos). Mr. Campbell later mentioned he dug out the east-west retaining wall adjoining the shed about 6 years ago and put in gravel and drains (scuppers) to facilitate drainage off the slope draining onto his property.

MIKE SWEENEY @ 1334/02FEB11:

I (Mike Osweiler) advised Mr. Sweeney about the leakage from the retaining wall and the need to contact his insurance agent--I gave Mr. Sweeney an Ecology Environmental Contractor List (2009 edition). I further advised Mr. Sweeney there were storm drains downgrade from the Campbell property that also need to be protected. There is a concrete retaining wall adjacent to the shed and in the northwest corner of the Campbell property.

AROUND 1400/02FEB11:

I learned from Mr. Sweeney he would have someone on site around 1630 today. I originally thought this person was Mr. Sweeney's insurance agent--it turned out this person was Jack Thompson (see narrative below). I informed Mr. Sweeney that a 1630 response time on 02FEB11 would not be timely and that I would need to inform my boss about making other on-site response arrangements. I left messages with NRCES (Jason Blair @ 1405/02FEB11) & CCS (Justin Piper @ 1413/02FEB11) to inquire about their availability and time to site.

JIM SACHET @ 1450/02FEB11:

I conferred with Jim Sachet about the scheduled 1630/02FEB11 arrival time by Mr. Sweeney's representative. I will (and did) tell Mr. Sweeney that Ecology will be retaining a contractor to stabilize leakage from the retaining wall. Cowlitz Clean Sweep (CCS) was retained by Ecology to deploy absorbent boom at the base of the concrete retaining wall along the north end of the Campbell property (see photos on file with this ERTS).

JUSTIN PIPER/CCS @ 1518/02FEB11:

Justin Piper will have CCS personnel stop by to assess scene.

STEVE RANDICH/STORMWATER MTCE. SUPV. & RICK SANGDER/DEP. PUB. WORKS DIR-CITY OF ABERDEEN ON SITE @ ~1520/02FEB11:

City of Aberdeen opened the storm drain manhole at the intersection of North I Street and 1st Avenue—ground water from the Campbell property drains to this structure and eventually to the Wishkah River and then to the Chehalis River. Oil & water absorbent sock was recovered from this manhole and replaced with oil absorbent boom.

JOHN STEVENS/CCS ON SITE ~1556/02FEB11; ROY SHAWGO/CCS ON SITE ~1630/02FEB11:

CCS awaiting delivery of booms/absorbents for use by CCS on site (by `Cody`/CCS). John Stevens left the scene a ~1730/02FEB11.

JACK THOMPSON ON SITE AT 1314 NORTH I STREET ~1645/02FEB11:

Jack Thompson (present at the request of Mike Sweeney) walked up the slope joining Campbell and Sweeney properties:

*He found a drainage pipe in the slope--he believes this is part of a foundation drain that takes water away from the Sweeney residence.

*He remarked there were rodent (mountain beaver) burrows in this slope that could convey oil leaking from the Sweeney residence

*He remarked there is a significant amount of sandstone in the area that could influence oil draining down this slope.

I initially expressed belief the north side (inside) of this wall be trenched so that groundwater coming off the fuel oil-impacted soil could be intercepted and treated in place with absorbents (see narrative below). However, because of the perceived risk of a landslide by digging in the area of this slope I instructed CCS (Cody & Roy) to only apply absorbents along the entire length of the retaining wall on the Campbell property pending further assessment by qualified personnel (see photos).

I asked Mike Sweeney to leave a voice mail on my office phone with information on his insurer and I will call the insurer in the morning (03FEB11--see narrative, below).

Before leaving the scene on 02FEB11 I informed Mr. Campbell I would be referring this site to the Toxics Cleanup Program because this cleanup would be a long-term process (referral to Fern Svendsen completed on 04FEB11—see ERTS 624802).

I was off site from 1314 North I Street, Aberdeen, WA at 1910/02FEB11 and home at 2031/02FEB11.

ERAN HARRELL/USAA (800-531-8722/extension 40332) @ 0835/03FEB11:

No answer--I left a voice mail requesting callback.

Department of Ecology - Environmental Report Tracking System

ERTS # 624802

ERAN HARRELL/USAA @ 0901/03FEB11:

No answer--no voice mail message left.

ERAN HARRELL/USAA @ 0907/03FEB11:

No answer--I left a second voice mail message.

ERAN HARRELL/USAA @ 0935/03FEB11:

Per Mr. Harrell there is a very good chance there is no coverage for this fuel tank spill by USAA. Mr. Harrell requested records (photos/report/etc.) of this incident from Ecology. I asked Mr. Harrell to contact Debbie Nelson/Ecology-Record/SWRO for this information.

Mr. Harrell said this USAA policy has been in effect for this property (1400 Bellevue) for 4 years (+/-). I told Mr. Harrell I am not a geoengineer but I was shown features that suggested the soil was moving on this property (fence/rock structures). I will speak with the Aberdeen city engineer about this spill and the stability of this slope. I advised Mr. Harrell to get in touch with Mr. Sweeney about what USAA intends to do in connection with this incident.

LARRY BLEDSOE/PUBLIC WORKS DIRECTOR/CITY ENGINEER-CITY OF ABERDEEN @ 1027/03FEB11: I asked to meet with Mr. Bledsoe on site at 1314 North I Street--we will meet later today.

CAMPBELL RESIDENCE/1314 NORTH | STREET-ABERDEEN @ ~1500/03FEB11:

I met on site with Larry Bledsoe--we walked up a footpath near the slope behind the Campbell residence and Mr. Bledsoe visually assessed this slope. Mr. Bledsoe believed a trench could be excavated without landslide risk along the inside wall near the Campbell's shed to expose groundwater there for treatment with absorbents. He was not in favor of doing any excavation in/on the slope itself as this could destabilize the slope--he would be in favor of allowing oil residues in the soil to naturally degrade.

Larry Bledsoe and I then drove over to the Sweeney residence--no one was at home at the time of our visit. We looked at the area where the heating oil tank was buried. Mr. Bledsoe thought this tank should be removed and as much oil-saturated soil removed from the site as possible (again, not digging into the slope).

MIKE SWEENEY (360-533-4486) @ ~1605/03FEB11:

I spoke by cell phone with Mike Sweeney during my return to Olympia, WA-he informed me he was in Olympia, WA at the time of this call. I told Mr. Sweeney I spoke with Eran Harrell/USAA earlier today and it did not appear likely he was covered for this incident by USAA. I also informed Mr. Sweeney I was referring this incident to Toxics Cleanup Program for follow-up.

I told Mr. Sweeney I had met on site with Larry Bledsoe/City of Aberdeen and walked both the Sweeney's and the Campbell's properties. I told him about Mr. Bledsoe's observations (see above). Mr. Sweeney wanted to know if he could hire his own contractor (Jack Thompson) to do the cleanup of these properties. Mr. Sweeney wants to do this cleanup through Ecology's Voluntary Cleanup Program. I said Mr. Sweeney could hire his own person(s) to work for him and I will speak with Chuck Kline/VCP-SWRO.

MIKE SWEENEY (360-533-4486) @ 0937 & 1005/04FEB11:

I left voice mails detailing I needed to meet with him today and a request to call me.

CHUCK KLINE (360-407-6267) AM/04FEB11:

Chuck Kline was out of the office at time of this call.

VOICE MAIL FROM LUCKY CAMPBELL (LEFT AT 1035/04FEB11):

Mr. Campbell was calling in to check on progress to date and requested callback (see 04FEB11 site visit below).

MIKE SWEENEY @ 1056/04FEB11:

While enroute to Aberdeen from Olympia I got hold of Mr. Sweeney and told him I needed to drop off paperwork and check the Campbell property below (per an earlier call regarding sheen runoff from Mr. Campbell). Jack Thompson may be on scene too, per Mr. Sweeney.

SWEENY RESIDENCE-1400 BELLEVUE AVEUNE, ABERDEEN, WA @ ~1150/04FEB11:

I stopped in at 1400 Bellevue and met with Mike Sweeney. I presented him with a notice of correction (NOC) and attachment both of which he signed and dated (NOC #03376/docket #8362--on file with this report).

CAMPBELL RESIDENCE-1314 | STREET, ABERDEEN, WA @ 1205/04FEB11:

Mike Sweeney and I then went to the Campbell residence and met with Jack Thompson--Mr. Sweeney's contractor, Mr. & Mrs. Lucky Campbell, another unidentified couple and (later on) Steve Randich-City of Aberdeen. I informed the Campbells that Mr. Sweeney had retained Mr. Thompson as his cleanup contractor for this site. Mr. Sweeney intends to:

- *Remove the underground storage tank at the Sweeney residence and assess/clean up local soil contamination in the tank excavation.
- *Monitor absorbents deployed along the retaining walls on the Campbell property--change these out when contaminated and as needed.
- *Remove contamination from the slope.
- *Retain a geo-engineer to assess this property and help decide on feasible approaches for site remediation.
- *Before attempting remediation, develop a plan and submit same to Ecology for review/approval.
- I informed this group that TCP (Fern Svendsen) would conduct an initial site assessment of these properties.

While on site we checked the storm drains along the west side of I street as well as at the intersection of I Street and 1st Avenue. I saw light sheen in the middle inlet structure along I Street—I left adsorbent (Ad Sorb It) material for use in these drains for removing sheen. We pulled the manhole at the base of I street where it intersected with 1st Avenue—no sheen was found there. We later learned (with water dye) that drainage from the middle drain on I street enters this manhole.

ERTS # 624802

We learned from Mr. Campbell there is a French drain system that drains southward from the retaining wall behind the Campbell's shed and

then southward into the lawn beyond the shed. I smelled diesel in the lawn immediately south of the Campbell's shed (see photos).

Mr. Campbell had reservations about installing an interceptor drain along the retaining wall adjoining the Campbell's shed. Mr. Campbell believes the proper approach is to excavate soil from the toe of this slope to its top in such a way as to minimize an earth slide. The safest and most appropriate approach(es) to removing on-site contamination will need to be identified by qualified individual(s), agreed upon by all interested parties and implemented following approval by Ecology.

Mr. Sweeney wants to take over maintenance/management of the absorbent booms laid at the base of the retaining wall on Campbell property (I checked with Jim Sachet—this proposal was acceptable and I called CCS (Justin Piper) to cancel their site scheduled site visits this coming weekend around 1518/04FEB11). Before leaving the Campbell property I gave name/number of Chuck Kline/Volunteer Cleanup Program—TCP to Jack Thompson. I left the Campbell property at/about 1315/04FEB11 and returned home at 1524/04FEB11.

ROY SHAWGO, CCS @ 0850/07FEB11:

I informed Roy Shawgo that Mr. Sweeney would be managing his own boom deployment on site at the Campbell residence and downgrade from there. I then informed Roy Shawgo that Mike Sweeney would probably want to return unused absorbents to CCS for refund. I will contact Mike Sweeney and inform him to contact CCS to arrange for return of unused absorbents for credit.

MARK ROBINSON/NORTHWEST TESTING COMPANY (360 866 3647) @ 1225/07FEB11:

Mark Robinson is tentatively going to work with Jack Thompson on cleanup of the properties at 1400 Bellevue Avenue and 1314 North I Street, Aberdeen, WA. (See e-mail correspondence on file with this report.) This incident has been referred to TCP (Fern Svendsen) for follow-up.

LUCKY CAMPBELL (360-589-6246) @ 1345/07FEB11:

Mr. Campbell called to obtain Mr. Sweeney's insurer/telephone number. I said I would call Mr. Sweeney and ask him to provide that information to Mr. Campbell. Mr. Campbell also mentioned his neighbors down the hill from him also want to talk with their insurers about this spill.

Mr. Campbell said Mr. Sweeney et al. are about to remove the tank behind Mr. Sweeney's house. Mr. Campbell wants to this removal to be done under appropriate regulatory supervision by properly licensed individual(s). I told Mr. Campbell I issued an order (SIC: Notice of Correction/NOC) to Mr. Sweeney last week and that a site plan would be required (see NOC on file with this report).

Mr. Campbell wants a copy of the NOC and other pertinent information. I said I would check with my Supervisor on whether I could release public documents without going through procedures. (I spoke with Debbie Nelson/Records-SWRO--she will contact Mr. Campbell regarding document release procedures.)

MIKE SWEENEY @ 1400/07FEB11:

I told Mr. Sweeney that Mr. Campbell wants the name/number of his insurer. I asked Mr. Sweeney to call Mr. Campbell and provide that information. Mr. Sweeney said he would provide his insurer's name/number to Mr. Campbell. Mr. Sweeney replaced absorbents this morning and will take stained material(s) to LeMays for disposal later this week. Mr. Sweeney said he was experiencing frustration working with his neighbors on cleanup activities he plans to take--Mr. Sweeney said he is not walking away from his responsibilities.

MIKE SWEENEY @ 0753/10FEB11 (RETURNED MY CALL FROM 09FEB11):

I learned from Mike Sweeney that he would be meeting with Northwest Environmental Services, Jack Thompson and a soils specialist on Friday (11FEB11) and will try to involve Ecology. Mr. Sweeney plans to take oil-contaminated booms to Le Mays (Aberdeen) for disposalhe said he offered to take Mr. Campbell along to address Mr. Campbell's concerns about waste disposal from his property.

I (Mike Osweiler) told Mr. Sweeney Spills is transitioning this incident to TCP—the point of contact at TCP is Cris Matthews for the time being. I gave Cris Matthews' office number to Mr. Sweeney for future use. I also told Mr. Sweeney I was sending him a letter extending the effective date of the NOC I earlier issued to 05MAY11 (among other topics—see file).

ON SITE 1314 NORTH I STREET ABERDEEN @ ~1025/06APR11:

Kathy Armstrong and I met with Rick Sangder, his stormwater manager and later with Lucky Campbell. While on site we checked the runoff flowing south from the Campbell's concrete retaining wall to the drains along the west side of the Campbell driveway. We did not see sheen in this runoff at the time of this site visit. With Mr. Campbell's verbal permission we collected water samples from both drains along the west side of the Campbell driveway to assess for presence of entrained oil--results are pending. (See photos.)

We checked the storm drain in First Avenue at the south end of I street. We found no sheening therein. (See photos.)

We checked standing water in the French drain field just south of the shed on the west side of the Campbell property and near the concrete retaining wall. We saw no sheen there at the time of our visit. (See photos.) We were informed by Rick Sangder that earlier he dug in this drain field and found standing oil (red diesel)--he promptly closed the excavation to prevent oil from escaping this drainage area.

While on scene we learned from Mr. Campbell that he installed a French drain system along the footpath leading uphill from his property to the Sweeney property. (See photos.)

Kathy Armstrong and I left the scene about 1144/06APR11.

NOC STATUS & ACTIONS TO DATE LETTER TO SWEENEYS.

Sent June 1, 2011 (cc'd to Lucky & Carol Campbell, Larry Bledsoe-City of Aberdeen, Scott Rose-TCP, et al.)

Entry Person: Stane, RaChelle

Entry Date 2/9/2011

ER'	TS	#	62	48	n	2
-1		77	UZ	+0		Z

ERTS # 624802

Referral

					Referral #	141637
Referral Method	Person Referred to	OSWEILER, MIKE			Primary [
O 5 mail EDTO much an	Phone	(360) 407-6372	Fax			
E-mail ERTS number	E-mail	mosw461@ecy.wa.gov				
○ E-mail attachment	Program/Organization	SPILLS, PREVENTION,	PREPAR	REDNESS AND	RESPONSE	
O Print	Address	300				
Telephone	City	LACEY	WA	98504-		
	Region/Location	SWRO				
	Referral Date	2/2/2011				
					Referral #	141638
Referral Method	Person Referred to	PLIA,			Primary [
	Phone	(360) 586-5997	Fax (36	0) 586-7187		
E-mail ERTS number	E-mail	pliamail@plia.wa.gov				
E-mail attachment	Program/Organization	POLLUTION LIABILTIY	INSURA	NCE AGENCY		
O Print	Address	1015 10TH AVENUE SC	OUTHEAS	ST		
○ Telephone	City	OLYMPIA	WA	98504-0930		
	Region/Location	WASHINGTON STATE				
	Referral Date	2/9/2011				
					Referral #	141639
Referral Method	Person Referred to	SVENDSEN, FERN			Primary [
O E well EDTO a walker	Phone	(360) 407-6246	Fax			
E-mail ERTS number	E-mail	fsve461@ecy.wa.gov				
E-mail attachment	Program/Organization	TOXICS CLEANUP				
O Print	Address					
○ Telephone	City		WA			
	Region/Location	swro				
	Referral Date	2/4/2011				

ERTS # 624802

Initial Rep	ort	-		External F	Reference # s	see ERT	S 624933 2nd	site contaminati
Caller Informa	ation			Where did it happe	<u>en</u>			
	First	Last		Berth			Anchorage	
Name	LUCKY	CAMPBELL		Location Name	ABOVE CAL	LER ON	HILLSIDE	
Busines Name				Street Address	1400 BELLE	VUE AVE	=	
Street Address	1314 N I STREE	ΞT		Other Address				
Other Address				City/Place	ABERDEEN	-	State WA	Zip
City	ABERDEEN	State WA	Zip	County - Region	GRAYS HAF	RBOR	SWRO	FS ID
E-mail			Confidential_FL	WIRA#				
Phon	ne Ext	Туре		Waterway			Ty	pe STORM DRAIN
(360)	589-6246	Busine	SS	Latitude			Longitude	
, ,				Topo Quad 1:24:000	ABERDEEN			
What happen	ed	Spills Pr	ogram Oil Spill? Y	Direction/Landmark (m	nile post, cross	s roads, t	township/range	e)
Incident Date	2/1/2011	Received Date	2/2/2011 10:12					
Medium	Fresh water							
Material	Diesel Oil			Primary Potential	ly Respons	ible Pa	arty Informa	<u>ition</u>
	Sheen Only	Quantity T	o Water	First	La	ast		
		1		Name MICH	HAEL S'	WEENE'	Y	
Source	Underground S	Storage Tank		Business Name				
Cource		ate Property	Primary 🗸	Street Address 1400	BELLEVUE A	AVE		
0		. ,	, <u>•</u> ,					
Cause	0.10 .11			Other Address				
Incident Type	•			City ABE	RDEEN		State WA	Zip
Activity	Unknown WATER POLL	LITION		Phone		Ext	Ту	•
Vessel Name	VATERTOLL	OTION		E-mail			,	,
i						-		
Hull Num	nber							
Additional Co	ontact Informa	ation						
Name		Phone	e Ext	Туре				
				,				
More Informa	<u>ition</u>				•			
Caller reportir	ng that yesterday	the Aberdeen Fir	e Department came o	ut to his house because	of diesel oil r	unning th	rough his pro	perty
from the up h	ill neighbors dies	sel tank.						
The oil is com around the stoom.	ning out of the so orm drains, how	cupper through the ever, caller reports	weep holes, across he those are full of oil ar	is driveway and into the	e stormdrain. A booms. It is b	Aberdeen acking u	placed boom p and pooling	s at the
		·	Entry P	erson Stane, RaChelle			Entry Da	te 2/2/2011

ERTS # 630453

Initial Rep	ort			External I	Reference #		
•							
Caller Informa				Where did it happe	<u>en</u>		
	First	Last		Berth		Anchorage	
Name		DALE		Location Name			
Busines Name	CITIZEN			Street Address			
Street Address				Other Address			
Other Address				City/Place	ABERDEEN	State WA	Zip
City		State WA	Zip	, ,	GRAYS HARBOR	SWRO	FS ID
E-mail			Confidential_FL	WIRA#			
Phon	e Ext	Туре		Waterway	ALDER CREEK	Ту	pe CREEK
(360)	581-8583	Mobile		Latitude		Longitude	
				Topo Quad 1:24:000	ABERDEEN		
What happen	ed	Spills Pro	gram Oil Spill? N	Direction/Landmark (m 200 FEET OF ALDER)
Incident Date	11/17/2011 Re	ceived Date	11/17/2011 14:27				
Medium	SURFACE WATE	R-FRESH					
Material	OTHER - SEE NO	TE		Primary Potential	ly Responsible P	arty Informat	<u>ion</u>
	Quantity	Unit		First	Last		
	1	OTHER		Name			
Source	OTHER			Business Name CITY	OF ABERDEEN AN	ID GRAYS HAR	BOR COLLEGE
				Street Address			
Cause	OTHER			Other Address			A.
•				City		State WA	Zip
Activity				Phone	Ext	Typ	,
•	STREAM FLOW	REDUCTION		E-mail	LX	,	
Vessel Name				L-mail			
Hull Num	ber						
Additional Co	ntact Informatio	<u>en</u>					
Name		Phone	Ext	Туре			
College divert The problem i place for all o	g that while walking ted the flow of Alder is that salmon return f this activity and sta	Creek due to flo ning to spawn ar ates that this sta	poding issues. The C re getting stuck in this rted with Ecology yea	almon in a ditch. He stat ity of Aberdeen came o c ditch and are dying. Ho ars ago. Neighbor told o	ut and dug ditches for e believes there have caller that last year it	r overflow to go been no permit	o. s in
were going to	the ditch to get the	salmon out. The	e neighbor ran them o	off but did not notify any	one of the incident.		
			Entry Pe	erson Stane, RaChelle		Entry Dat	e 11/17/2011

ERTS # 630453

Referral

					Referral #	150913
Referral Method	Person Referred to	DEPARTMENT OF FISH	& WILD	LIFE HABITAT BIOLOGI	Primary [
O E !! EDTC	Phone	(360) 249-1228	Fax			
E-mail ERTS number	E-mail	Amy.lverson@dfw.wa.go	v			
E-mail attachment	Program/Organization	HABITAT BIOLOGIST-gi	ays harb	or & thurston county		
O Print	Address	48 DEVONSHIRE JRD				
() Telephone	City	MONTESANO	WA	98563-9618		
	Region/Location	GRAYS HARBOR and T	hurston (CO		
	Referral Date	11/17/2011				
					Referral #	150914
Referral Method	Person Referred to	JACKSON, STEPHANIE			Primary [
O E!I EDTO	Phone	(360) 407-6294	Fax			
E-mail ERTS number	E-mail	swer461@ecy.wa.gov				
E-mail attachment	Program/Organization	WATER QUALITY				
O Print	Address					
	City	LACEY	WA			
	Region/Location	SWRO				

Followup (None)

Appendix C – Outfall Reconnaissance Inventory Field Sheet

Section 1: Back	groun	d Data					
Subwatershed:					Outfall ID:	Charles Control of the state of	Languari de commission propietare de la propietare de la commissión de la deposition de la propietario de la p
Today's date:					Time (Military):		
Investigators:					Form completed by:		
Temperature (°F):			Rainfa	all (in.): Last 24 hours:	Last 48 hours:		
Latitude:		Longi	tude:		GPS Unit:	GPS LM	K.#:
Camera:		······································			Photo #s:		
Land Use in Drain	age Are	a (Check all that apply):				
☐ Industrial				٠	Open Space		
Ultra-Urban Re	esidentia	al			☐ Institutional		
Suburban Resid	dential	•			Other:	· · · · · · · · · · · · · · · · · · ·	
☐ Commercial					Known Industries: _		
Notes (e.g., origin	of outfa	ıll, if known):					
CO-ENGLISHED CO-S INCOMPLES ANTENDES SERVICES		documentaristi un matematica per balancar commo imper pol	51.7361.et 0)343er e	CONTRACTOR OF THE CONTRACTOR O	HANCO PERSONAL PROPERTY OF THE	ter a statement i bary web inter 4 i som statement i statement i statement i statement i statement i statement	POMMETERS TO CONTRACT AND
Section 2: Outf	at the state of the state of	scription MATERIAL	Udo Harmanana a	COLUMN CONTRACTOR CONT	THE COMMENT AND THE COMMENT OF THE PROPERTY OF THE COMMENT OF THE	and the september of the season of the september of the s	
LOCALION	Actions to promote services	RCP (9402-18-18-18-19-19-19-19-19-19-19-19-19-19-19-19-19-	CONTRACTOR OF THE PROPERTY OF	APE	DIMENSIONS (IN.)	THE RESIDENCE OF THE PROPERTY
				☐ Circular	Single	Diameter/Dimensions:	In Water:
panag		į	IDPE	☐ Eliptical	Double	·	_ ☐ Partially ☐ Fully
Closed Pipe		Steel		☐ Box	☐ Triple		With Sediment:
		Other:	-	Other:	Other:		☐ No ☐ Partially
Territoria y constitución de la	***		4.07543:0::: 001V:	ale, Bartela Garage (Construent Construent C	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE		Fully
		☐ Concrete		☐ Trapezoid		Depth:	
☐ Open drainage	p.	☐ Earthen		Parabolic			
open aranage	•	☐ rip-rap				Top Width:	
		Other:		Other:		Bottom Width:	
□ In-Stream		(applicable when co	llecting	(samples)	CONTROL OF THE SECOND CONTROL OF THE SECOND	ern kanstanden von eine franzölich bilde die Australie Australie und von der Australie und der Australie und d	varioren aastrokalaileeks valatuuriksi valaaksi kalenda kalenda kalenda kalenda kalenda kalenda kalenda kalend
Flow Present?	ayows:::Kmake	☐ Yes	□No	If No, Ski	p to Section S	TO COMPANY AND STOREST CONTROL OF THE STOREST PROPERTY	APPENDENT MATERIAL PROCESSION OF STREET AND POSITION STREET, STREET STREET, STREET, STREET, STREET, STREET, ST
Flow Description (If present)		☐ Trickde ☐	Moderat	te 🗌 Substantial	CONTRACTOR	med y file affiliation of the committee in Complete Complete Complete Complete Complete Complete Complete Comp	ebikkongrapanonki Militari Hafe za klano a king 1 Kyrono uga E. Vyrodi sa kazina przego n
Section 3: Qua	ntitat	ive Characteriza	ion				
A STATE OF THE PERSON NAMED IN COLUMN TWO IN	LIENNO TOLLINO	PATRICE TO SERVE LIMITED STREET, MANAGEMENT PROPERTY.		FIELD DATA FOR F	LOWING OUTFALLS	·····································	The colored to the change meaning ment they be a market ment and the colored to t
P	ARAMI	eter		RESULT		UNIT	EQUIPMENT
□Flow#1		Volume				Liter	Bottle
		Time to fill				Sec	
	L	Flow depth				In	Tape measure
∏Flow #2		Flow width		3 33		Ft, In	Tape measure
		Measured length	ļ <u></u>	3 33		Ft, In	Tape measure
	<u> </u>	Time of travel	ļ			S	Stop watch
	T'emper					ok.	Thermometer
	pH		-			H Units	Test strip/Probe
	Ammo	onia				mg/L	Test strip

Illiait Discharge Defection and Filmingtion: Technical Appendices

3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials) ☐ 3 – Noticeable from a distance ☐ 3 — Clearly visible in outfall flow ☐ 3 — Opaque RELATIVE SEVERITY INDEX (1-3) COMMENTS of origin (e.g., possible suds or oil sheen) ☐ 2 — Clearly visible in sample bottle 2 - Some; indications ☐ Obvious ☐ 2 — Easily detected ☐ 2 - Cloudy Suspect (one or more indicators with a severity of 3) \square 1 – Few/slight; origin not obvious Caulk dam 1 - Slight cloudiness 1 – Faint colors in sample bottle ☐ 1 — Faint (If No, Skip to Section 6) OBM Oil Sheen Peeling Paint Other: Other: If Yes, type: (If No, Skip to Section 5) ☐ Colors ☐ Floatables ☐ Excessive Algae DESCRIPTION ☐ Yellow Green Paint 🗌 🔲 Rancid/sour 📋 Petroleum/gas Spalling, Cracking or Chipping Corrosion Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? DESCRIPTION □ Other: ☐ Inhibited See severity ☐ Gray Suds ☐ Red Orange ☐ Pool 2 2 1 % | | ☐ Flow Line Potential (presence of two or more indicators) Sewage (Toilet Paper, etc.) Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? ☐ Excessive ☐ Brown Orange □ Other: Odors Suds Petroleum (oil sheen) ☐ Brown Are physical indicators that are not related to flow present? ☐ Flow ☐ Yes ∏ Yes Sewage Sulfide Clear Green CHECK if Present Section 6: Overall Outfall Characterization CHECK if Present Section 7: Data Collection Intermittent flow trap set? If yes, collected from: Sample for the lab? Abnormal Vegetation Pipe benthic growth Floatables -Does Not Include Trash!! Poor pool quality Outfall Damage Deposits/Stains INDICATOR INDICATOR Turbidity ☐ Unlikely Color Odor

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

```
1. Fry Creek
                      72
2. Division St.
                      42.
3. Treatment Plant
                      18
4. Lincoln St.
                      48
                      30
5. Washington St.
6. Jefferson St.
                      24
                      24
7. K St.
8. H St.
                      36
9. River St.
                      8
10. State St.
                      12
11. Heron St. W.
                      12
                      12
12. Wishkah St.
13. E St.
                      30
                      24
14. D St.
                      8
15. B St.
16. Chicago St.
                      8
17. Stanton St.
                       18
                       18 pumps 24 overflow
18. Arthur St.
19. 5th Ave.
                       36
20. 6<sup>th</sup> Ave.
                       12
21. Young St.
                       24
22. Newell St.
                       12
                       12?
23. Harbor St.
24. Kansas St.
                       15
25. Heron St.
                       18
26. R/R Ditch
                       12
                       15
27. Benn St.
28. Gateway Mall
                       18
                       24
29. Morrison Park
                       12
30. Sargent Blvd 1
31. Sargent Blvd.2
                       18
32. Sargent Blvd. 3
                       24
                       30
33. Huntley St.
34. Saginaw
                       36
                       24
35. Front St.
36. Shannon Slough
                      54
37. Wood St.
                       18
38. Decatur St.
                       60
39. Taylor St.
                       12
40. Lee St.
                       24
41. Wilson Creek
                       72x72 box culvert
```



OCCION 1: INICK	- Contract - Contract	THE COURSE OF STREET THE OWN IS NOT THE PARTY OF THE PART	Water Colored		THE PROPERTY OF THE PROPERTY O	AND THE PERSON OF THE PERSON O		State of the State
		IALIS RIVER	·		Outfall ID: #			
Today's date:		6 - 2011			Time (Military)			
Investigators:	SPRI	NGER / RANG	pict		Form complete	d by: Springer	8.	
Temperature (°F):		50	4	all (in.): Last 24 hours:	Ø Last 48 ho	urs: 🖋		
	58'9",	N Long	gitude: /	23°51'6'W	GPS Unit:	(GPS LMK #:	
Camera: $\mathcal{N}_{\mathcal{I}}$					Photo #s:			
Land Use in Drain	age Are	a (Check all that appl	y):		·	rs.		
☐ Industrial				•	Open Space			
Ultra-Urban Re	esidentia	al			☐ Institutional	1		
Suburban Resid	dential				Other:	· · · · · · · · · · · · · · · · · · ·		
☐ Commercial					•			
Notes (e.g., origin	of outfa	nll, if known):				ies:		
. 0,		,						
eten kilistyssässikaspysisest Populysi transminsi pieten ja kilistysise	Owner West (Mine)	O THE PROPERTY OF THE PROPERTY		AND THE REAL PROPERTY OF THE P		THE PROPERTY OF THE PROPERTY O	a man an feri anno an	
Section 2: Outf	THE PERSON NAMED IN	CONTRACTOR AND ASSESSMENT OF THE PROPERTY OF T	774000000000	THE THE PARTY OF T			Allock with year organization to	
LOCATION	,	MATERIA		A STORE WATER STREET,	APE	DIMENSION	is (In.)	SUBMERGED
		□ RCP □	CMP	☑ Circular	☐ Single	Diameter/Dimensi	ons:	In Water:
		□ PVC □	HDPE	☐ Eliptical	☐ Double	72"		☐ No ☑ Partially
🛛 Closed Pipe		⊠ Steel		☐ Box	Triple			☐ Fully
		Other:		☐ Other:	Other:			With Sediment:
	:							Partially Fully
497/1000 Substitution of the responsible (specification)		Concrete	and the second s	e. Europietosotero (erodysprzenovany-Potodowoworu-Petropiece es	WITCH THE PROPERTY OF THE PROP	di Parah Cara Magnisa di Parah di Parah Marah	THE PROPERTY OF THE PROPERTY OF	
		☐ Earthen		Trapezoid	,	Depth:		
☐ Open drainage	2	☐ rip-rap		☐ Parabolic		Top Width:		
		Other:		Other:		Bottom Width:		
emperaturation and the second	tile i letter ser yeten en	COMMON THE PROPERTY AND ADDRESS OF THE PARTY A	Marine China	The state of the s	aranga tarbagang perandakan dalam samanyan		Andrews - Principle Annaly (Applied April 1999 100	
In-Stream	enterprise and	(applicable when c	Proposition of the Parket	BORD-I DESTORAT CENTRA MESTERIOR MANOR PROPERTIES PROPE	ALLEGATOR SOURCE OF SOURCE	A for the state of	Personal principal processors (co	THE STREET S
Flow Present?	ngaran nakkamban	☐ X GS	PNO	If No, Sk	lp to Section 5	PH CUCYPURTUUR PHYSIA STEADY SCHOOL ESSENDE SALANDESS SE	TO SHARE SHOWING THE REAL PROPERTY.	MANAGEMENT STATES CONTRACTS LINGUIS AND THE CONTRACTS CO
Flow Description (If present)		Trickle	Moderat	e 🔲 Substantial				
Food and and	terraturas (Oder		WATER CONTRACTOR OF THE PARTY O	a de la maria de la companya de la c	Control of the Antonia Control of the Control of th	A Vidyorus Dynosin yoʻshiri axsiliy sich diyyayindi, itayili da Vidyorupos na ma		мене выполнительность откустот от от этому раз
section 3; Qua	nntao	ive Characteriza	tion	To the last the second		indensités (part paulantinus)	Married & Principal Company of the Principal C	THE CONTRACTOR REPORTED TO SERVICE AND SER
D	ARAMI	7760	1	FIELD DATA FOR F	LOWING OUTF			
		Volume		RESULT		UNIT	E.	QUIPMENT
□Flow#I	ļ	Time to fill	-			Liter	· · · · · · · · · · · · · · · · · · ·	Bottle
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Figure 40		Flow width	1	333		Ft, In		ape measure
□Flow #2		Measured length	1=	1 11		Ft, In		ape measure
		Time of travel				S S	······································	Stop watch
,	Tempera	ature				°F		Chermometer
	рН					pH Units		est strip/Probe
	Ammo	nia				mg/L		Test strip
			1		-	J		· ls

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

(If No, Skip to Section 5)	DESCRIPTION	uncid/sour		She severity	etc.)	ing Outfalls Yes [J] No (If No, Skip to Section 6)		alling, Cracking or Chipping Paint prosion	☐ Flow Line ☐ Paint ☐ Other:	ssive 🗍 Inhibited	rs Colors Floatables Oil Sheen Excessive Algae Other.	wn 🗆 Orange 🗀 Green 🗎 Other:		ors) Suspect (one or more indicators with a severity of 3)	区No	
	α.	☐ 1 — Faint	1 – Faint colors in sample bottle	1 – Slight cloudiness	1 – Few/slight, origin not obvious	10 Section 6)		ding Paint	The second secon		Oil Sheen Other:	Other:	tiration of the second	more indicators with a severin		
Z No		Rancid/sour Petroleun/gas	Gray		etc.)	ing Outfalls Yes [1] No			🗌 Paint	☐ Excessive ☐ Inhibited	☐ Floatables ive Algae	Orange Green		OIS)	Yes	**************************************
ne flow? Yes		Sewage	Clear	Green	Sewage (Toilet Paper, etc.)	Beth Flowing and	CHECK IF Present						erization	Potential (presence of two or more indicat	Ă.	
indicators for a cators Present in th	CHECK IF					Indicators for I	CHECK	Ment Can and Other Canada Cana	And the second s	THE PROPERTY OF THE PROPERTY O	Chierron of the second of the	ууд он тоо от тоо о	Outfall Charact	☐ Potential (pr	Hection 52	, .
Section 4: Physical Indicators for Filowing Cultans Compared Are Any Physical Indicators Present in the flow?	INDICATOR	Odor	Color		Turbidity Floatables -Does Not Include Trash!	Section 5: Physical Indicators for Both Flowing and Non-Flow	Ale physical margan	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	[Unlikely [Section 7: Data Collection	

Section 1: Backg	ground I	Data	Manual Property of the Section of th		THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS	ndranter versey good de plante projekt andrew I productive de la Maria (Maria Maria (Maria Maria (Maria Maria	With the second	
	HENALI	S RIVER			Outfall ID:	2 DIVISION	ST	The state of the s
	8-16-2				Time (Militar	`		
Investigators:	SPRINI	GER/RAN	PICH		Form comple	ted by: Springer		
Temperature (°F):	50		Rainfa	II (in.): Last 24 hours:	# Last 48 1	nours: Ø		
	'57'57	'N Lon	gitude:	123°49'44 W	GPS Unit:		GPS LMK #:	
Camera:		· · · · · · · · · · · · · · · · · · ·			Photo #s:			
Land Use in Draina	ige Area (C	heck all that app	ly):			r _k		
☐ Industrial				•	Open Spa	ce		
Ultra-Urban Res	sidential					al		
Suburban Resid	lential			•	Other:			
☐ Commercial					Known Indus	stries:		
Notes (e.g., origin	of outfall, i	f known):						
				ner Die ist de Silven, voor deur Chintoll bille bei de Verlande en serveren de Silven de Verland van de beske	i pieriendus maiame anna ar stale spainie in phi	YWYN CLWYssoniai chefthaff wy a go wy rou da bartanai y podabedda	THE STATE OF THE S	
Section 2: Outfa LOCATION	ACCOUNT TO SECTION	iption MATERIA		PAY 8	TA WEETHAND STATE STATE STATE ASSESSED.		Maria Conn.	manuscript was declarated and an analysis declarated
LOCALTOIS	OCTOR IN COLUMN TO A SECURITION	COLUMN TO PROPERTY OF THE PARTY	CMP	⊠ Circular	APE	Dimension Diameter/Dimension	-	SUBMERGED
		•			1	Diameter/Dimens	sions;	In Water:
panes _	į		HDPE	☐ Eliptical	☐ Double	42		Partially Fully
☑ Closed Pipe		Steel		□ Вох	Triple			With Sediment:
		Other:		Other:	Other:			□ No □ Partially
GPV-1129 problem conservate problems a proposed definition of the conservation of the	market in the second	na paramenta na pangangan pangangan pangangan pangangan pangangan pangangan pangangan pangangan pangangan panga	ACCUS FRANCES IN ACCUSANCE OF	and a little control of the second se	de montro processo con comença	Proposition (Transport to Community of the Community of t		Fully
		Concrete		☐ Trapezoid		Depth:		<i>\(000000000000000000000000000000000000</i>
☐ Open drainage		Barthen		Parabolic		'		
Open trainage] rip-rap				Top Width:		
] Other:		Other:		Bottom Width: _		
☐ In-Stream	(a	pplicable when	collecting	samples)	MENDERN CONTRACTOR WITH SELECTIVE CONTRACTOR	median ery minen yang melangkan ding unun aktu ya Kibah da Kali Tabidi Muza	**************************************	nasykkisulasekiniken kerikasi ke kisekinikinikinskeskinikis. Le <u>st, sila sila sila sila sila</u>
Flow Present?] Yes	[L/No	If No, Sk	ip to Section S	PP CCC S (CONT BLU) A 1777 (CONNE) Y BY TOY TO THE STOCK OF THE STOCK	est Wilderstromates transformates, graphylydoldo	PONTHINE DISCUSSION AND THE CHANNESS AND MALLES SECTIONS TO STATES
Flow Description (If present)	E	Trickle] Moderat	e 🗌 Substantial				and and Selfrence of the Selfrence of th
Section 3: Quar	ntitative	Characteriz	ation					
Towns to one of the second sec	(NAMES OF PERSONS ASSESSED.	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED I	The contract of the contract of	FIELD DATA FOR F	LOWING OUT	FALLS	The state of the s	htyd arwiles kleme ar Guddag haf falla far Gudd Greek (Aray) y garly y klemes gyfd
P/	ARAMETE	R		RESULT		UNIT	E	QUIPMENT
□Flow#1		Volume				Liter		Bottle
	T	ime to fill				Sec		
	F	low depth				In	7	Tape measure
∏Flow#2		low width		, ,,		Ft, In		Cape measure
		nsured length	4=	1 11		Ft, In		Cape measure
		me of travel				S		Stop watch
1	l'emperatur	е				oF.		Thermometer
	pH	*				pH Units	Т	est strip/Probe
	Ammonia		}			mg/L		Test strip

ulicit Discharae Defection and Elimination: Technical Appendices

	(1-3)	☐ 3 — Noticeable from a distance	☐ 3 — Clearly visible in outfall flow	☐ 3 — Opaque	Some origin clear	(e.g., obvious oil sheen, suds, or floating sanitary materials)		S					manataning distribution propagate deliver in individual propagate in the state of t								
	RELATIVE SEVERITY INDEX (1-3)	2 – Easily detected	2 – Clearly visible in sample bottle	2 - Cloudy		1 2 – Some, indications of origin (e.g., possible suds or oil sheen)		COMMENTS		The second secon	THE THE PROPERTY OF THE PROPER				of 3)	٠				egyti katikuur Seraji tukoo kotii katika Katika (Katika) kuuluuluuluuluuluuluuluuluuluuluuluuluul	
-	R	1 - Faint	1 – Faint colors in sample bottle	1 - Slight cloudiness		1 – Few/slight, origin not obvious	tion 6)		J.C.			u			Suspect (one or more indicators with a severity of 3)					OBM Caulk dam	
(If No, Skip to Section 5)	in the state of th	un/gas	☐ Yellow	Culor			S (If No Skin to Section 6)	SESCRI	ipping Peeling Paint	Paint Other:		☐ Floatables ☐ Oil Sheen Algae ☐ Other:	Green Other		Suspect (one or more				- (If Yes, type: 🔲 (
Ž	DESCRIPTION	Rancid/sour Petroleum/gas		Urange Li Keu	See Severity	Paper, etc.) Suds sheen) 🔲 Other:	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls	3	Spalling, Cracking or Chipping Corrosion	Oily Flow Line	Excessive Inhibited	Odors Colors Colors Suds Excessive Algae	☐ Brown ☐ Orange	angement (SARREX) (Character and annual participation of the sarrey and annual participation of	ore indicators)					N.	
lowing Outfalls O		Sewage Sewage	۵ ا	Creen L		Sewage (Toilet Paper, efc.)	oth Flowing and l	re not related to now preservent in the preserve						rization	Potential (presence of two or more indicators)			3	Flow	☐ Yes	
Indicators for E.	CHECK IF						Indicators for B	ors that are not re			достина по постана по п	Participation of the second of	NECOCOMMINISTRATION OF THE PROPERTY OF THE PRO	Outfall Characte	Potential (pre	Jertion		1.5	:шо	rap set?	
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	INDICATOR	Odor	rolo		Turbidity	Floatables -Does Not Include Trash!!	Section 5: Physical	Are physical indicators that are not related to flow present:	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	T Unlikely	Sartion 7. Bats Collection	Jeruna / Lane Cor	1. Sample for the lab?	if yes, collected from:	3. Intermittent flow trap set?	1

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Backs	ground Data		erappi menerana	Patron make of Southern and South Advanced by Southern and Advanced by Southern Sout	enyme international accompany of the contraction of	CANAL MALTIN COLUMN 2 SALENY 2 SALEN SALEN SALEN		
Subwatershed:	PHEHALIS !	RIVER			Outfall ID: #	3 TREATMEN	UT PLA.	UT
Today's date:	8-16-2011			*	Time (Military):	0710		
	SPRINGER				Form completed b	y: SPRINGE	R	
Temperature (°F):	50			ll (in.): Last 24 hours:	Last 48 hours	s: Ø		
Latitude: 46°	57'50'N	Longiti	.ide:	123°49′44′W	GPS Unit:		GPS LMK #	
Camera: N					Photo #s:			
Land Use in Draina	ige Area (Check a	ll that apply):			5			
☑ Industrial				•	Open Space			
Ultra-Urban Re	sidential				☐ Institutional			
Suburban Resid	lential				Other:			
Commercial					Known Industries	S'		
Notes (e.g., origin	of outfall, if know	n):						
(1974) Palaston Blacker, property at the property (Prival) the		tokan induntasan tang adalah	is er merks by sker y			O parameter to a secure to a surface of the security of the se	that is made conject at the property of	egil vi sonkarani kisi makabilan nga penga sukat barana prakasan masaya kanasan nga saya saya saya saya saya s
Section 2: Outf	CONTRACTOR STATE OF S	THE RESERVE AND PERSONS ASSESSED.	katio parezena de	SOUTH BE CONTROLLED TO SERVICE OF THE SERVICE OF TH	THE THEORY POSITION AND ADMINISTRATION OF THE POSITION AND ADMINISTRATION ADMINISTRATION ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND	k Marington and Andrew Colonics accomplished water for the Palazzon	THE STREET WILLIAM STREET STREET	
LOCATION		ATERIAL	e-molification	NATIONAL PROPERTY CONTROL OF THE PROPERTY OF T	/PE	DIMENSIO	are the second s	SUBMERGED
	RCP	C		Circular	Single	Diameter/Dimen	sions:	In Water:
	□ PVC	H	DPE	☐ Eliptical	☐ Double	18''		Partially Fully
Closed Pipe	Closed Pipe Steel			□ Вох	Triple			With Sediment:
	☐ Other	;		Other:	☐ Other:			□No
								☐ Partially ☐ Fully
o Process Conference (1) and process programming Conference	Conc	rete	Sept. Server 191	n barret and an analysis and an analysis	A transport of the state of the	CONTRACTOR OF STREET	MTV Glicial a Countrie II (nov. 1 les republiques	
	☐ Barth	en		Trapezoid		Depth:		
☐ Open drainage	: ☐ rip-ra	ip		Parabolic		Top Width:		
	☐ Other	r:		Other:		Bottom Width:		
[] In-Stream	STEELINGS AND THE PROPERTY OF THE PERSON AND ADDRESS OF THE PERSON ADDRE	ble when col	lecting	lanten (antenna	жубел іл раўзадском цы жубун поставляніў /	wante and a rote and a rest of the special free services.		manifestal aboles whiteless to be be be being the
Flow Present?	☐ Yes	THE RESERVE AND THE PROPERTY AND THE PRO	I No	addensity is former transfer and the second of the second	ip to Section S	ng tengani man ng siparabah menangkan dan kabanan	and the partitions in which the was the	IJĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸ ĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸ
Flow Description	THE RESERVE THE PARTY OF THE PA		POLITICA DE LA	THE RESIDENCE OF THE PROPERTY	TO DOCTOR II	ey pakepusett a velikist tähessad, essekist ettispiskulla aktise j	Gelden er	one of the local manufacture of the local production o
(If present)	☐ Trick	.16 [] 1/	Ioderat	e 🗌 Substantial	TANKE OF LAWRENCE WATER TO THE TANKE			
Section 3: Qua	ntitative Cha	racterizati	lon					
THE TOTAL PROPERTY OF THE PROP	elderypping all landers were to h e (p) displacement	Maria Charles Anno Anno Anno Anno Anno Anno Anno Ann	Parklas Hand	FIELD DATA FOR F	LOWING OUTFAI	LS		er en
P	ARAMETER			RESULT		UNIT		EQUIPMENT
□Flow#1	Volun	ne				Liter	<u> </u>	Bottle
[_]r10W#1	Time to	fill		7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	***************************************	Sec		
	Flow de	pth				In		Tape measure
□Flow #2	Flow w	idth)))		Ft, In		Tape measure
	Measured	length		1 11		Ft, In		Tape measure
	Time of	ravel				S		Stop watch
	T'emperature					oF		Thermometer
	pl·I					pH Units		Test strip/Probe
	Ammonia					mg/L		Test strip

RELATIVE SEVERITY INDEX (1-3)	☐ 1 — Faint ☐ 2 — Easily detected ☐ 3 — Noticeable from a distance	\square 1 – Faint colors in \square 2 – Clearly visible in sample bottle sample bottle sample bottle	☐ 1 — Slight cloudiness ☐ 2 — Cloudy ☐ 3 — Opaque	☐ 2 — Some; indications ☐ 3 - Some; origin clear of origin (e.g., obvious oil sheen, suds, or floating sheen, suds, or floating sheen, suds, or floating sheen, suds, or floating sheen, suds.	ction 6)	COMMENTS	int			ue:			Suspect (one or more indicators with a severity of 3)			
Yes LYNo (If No, Skip to Section 3) DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls	DESCRI	Spalling, Cracking or Chipping Peeling Paint	Oily Plow Line Paint Other:	☐ Excessive ☐ Inhibited	Odors Colors Pioatables Oil Shean Suds Excessive Algae	☐ Brown ☐ Orange ☐ Green ☐ Other:				□ Yes □ Yo	T Plass
	Sewage	Clear Creen			Section 5: Physical Indicators for Both Flowing and Noi	CHECK if Present		THE PROPERTY OF THE PROPERTY O	MCGMCGATTER COLUMN COLU	Name of the Control o		all Characterization	Potential (presence of two or more indicators)			
Are Any Physical Indicators Present in the flow? CHECK if Fresent Present	Odor	Color	Turbidity	Floatables -Does Not Include Trashii	Section 5: Physical Indi	Ale physical mulcarous in	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	M Unlikely P	Contion 7. Bata Collecti	Section / Date Consection 1. Sample for the lab?	ļ

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

ection 1: Backg	round Data	A PRODUCTION OF THE PARTY OF TH		na pierannia serminani eron, erokanie inimalia anna meteo			THE PERSON NAMED OF THE PE		
Subwatershed:	MEHALIS RIV	ER		Outfall ID: # 4	LINCOLN	Sr.			
	8-16-2011			Time (Military):					
Investigators:	SPRINCER /RA	NOICH		Form completed by:	SPRINGER				
Temperature ("1"):	50	Rainta	all (in.): Last 24 hours:	Last 48 hours: 6	<i>d</i>				
Latitude: 46° 3	57'56'N	Longitude:	123° 49'29' W	GPS Unit:		GPS LMK #:			
	UA			Photo #s:					
Land Use in Drainag	ge Area (Check all that	apply):		*					
☐ Industrial			•	Open Space					
Ultra-Urban Res	sidential			☐ Institutional					
Suburban Reside	ential			Other:					
☐ Commercial				Known Industries:					
Notes (e.g., origin o	of outfall, if known):								
,									
TO PARTICIPATE OF THE PARTY OF	# 1,434° crapus / # 10.44° crapus / # 1	THE DRIVE OF STREET STREET, ST	THE PROPERTY OF THE PROPERTY O	and the second s		guara magnados eregistados erestr	oderwoodske om so da kom del kamer om politica (1995) de se		
Section 2: Outfa	CONTRACTOR AND AND AND ADDRESS OF THE PARTY	d Albany Martine arry 2 of 15 days and 2 day	A CONTRACTOR OF THE PROPERTY O	and described the speciment of the speci	open mentance and a second	and the state of t	ed and content and considerate the content and content		
LOCATION	THE RESIDENCE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAME	The second section of the sect	THE RESIDENCE OF THE PROPERTY	APE	DIMENSIO	CONTRACTOR OF THE PERSON NAMED IN COLUMN	SUBMERGED		
	RCP	☐ CMP	Circular	Single	Diameter/Dimen		In Water:		
	□PVC	☐ HDPE	☐ Eliptical	☐ Double	48'		Partially Fully		
Closed Pipe	[4 Steel		☐ Box	Triple					
	Other:		Other:	Other:			With Sediment:		
							☐ Partially ☐ Fully		
GEOGRAPHIC CONTRACTOR OF THE PROPERTY OF THE P	Concrete	ing Piny ng camalang hayang ng nagang ng camananan	COLUMN TO THE PROPERTY OF THE	The mass construences on the same and the performance of the same and the same of the same	**************************************	ecus sopology soften) (pressure sur p			
	☐ Earthen		Trapezoid		Depth:				
☐ Open drainage	rip-rap		Parabolic		Top Width:				
	Other:		☐ Other:						
In-Stream	DECEMBER STEELS SEE STEELS OF STEELS SHOWN IN THE PROPERTY OF	COLUMN SECURE AND ADDRESS OF SALES AND ADDRESS OF S	Other: Bottom Width:						
Flow Present?	☐ Yes	UN	NACOSTALISMOSTALIS	ip to Section 5	r de mais regis palacientes de mais y de mais de la constitución y de la constitución y de la constitución y d		nen en		
Flow Description (Uf present)	☐ Trickle	☐ Modera		. Э.	owigienskienskie accessa engleskienskang		оний (Абароме Атак Украина Араба (ЖАМА) бай бай байсан мүс Асаан)		
			AND ALL DESCRIPTIONS OF THE PROPERTY OF THE PR		organistic titritici i perfetti de la cultura per	an an ann an an Airm a	отие х економуско феспорация от систему и создаждующе (удлис		
Section 3: Quan	ntitative Charact	erization	STATE OF THE STATE		ents fra his la gradient na ration en 1835 ann earl 1836 ann earl 1836 ann earl 1836 ann earl 1836 ann earl 18	Was photos he fild a minimum constitution of the	WIND OF STREET COLORS AND		
	an a servicio			FLOWING OUTFALLS		T	COL A COMPANIA NA SANSA		
l F	ARAMETER Volume		RESULT		UNII Liter	.32	QUIPMENT Bottle		
□Flow#1	Time to fill				Sec		Dome		
	Flow depth	el Copenius proping to			In		Tape measure		
,	Flow width		5 55		Ft, In		Tape measure		
□Flow #2	Measured lengt	h	3 33			···	Tape measure		
	Time of travel				Ft, In Tape meast S Stop wate				
	l'emperature				S Stop watch F Thermometer				
	pH				pH Units Test strip/Probe				
	Ammonia				mg/L		Test strip/Probe Test strip		

" Dischara Detection and Elimination: Technical Appendices

	((1-3)	☐ 3 — Noticeable from a distance	3 — Clearly visible in outfall flow	3 - Opaque	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)		SI			Annual Control of the								
	RELATIVE SEVERITY INDEX (1-3)	2 – Easily detected	2 – Clearly visible in sample bottle	2 - Cloudy	1 2 – Some; indications of origin (e.g., possible suds or oil sheen)		COMMENTS		A THE PERSON OF	HO SEPARATE COMMENSATION OF THE PROPERTY OF TH	Control to the state of the sta	me Open et presidente et a statet presidente propiet et a company open et a company open et a company open et		f3) 🗌 Obvious				es troncision i socialistice e como mai neropologue mondenti integracioni
	REL	🗌 l – Faint	1 – Faint colors in sample bottle	1 – Slight cloudiness	1 – Few/slight; origin not obvious	ion 6)			не в предоставляет в предоставляет в предоставляет в предоставляет в предоставляет в предоставляет в предоставл					Suspect (one or more indicators with a severity of 3)				M Caulk dam
(if No, Skip to Section 5)	PTION	☐ Perroleum/gas	ray Yellow ed Other:	erity	uds thet::	Jutfalls (If No. Skip to Section 6)	ESCR	Cracking or Chipping Teeling Paint	Paint Other:	jeç	Colors	ge Green Other.	man (100 man general menter) etter ett	Suspect (one or more in)]	If Yes, type: 🔲 OBM
N	DESCR	Rancid/sour	r Brown Gray	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroieum (oil sheen) ☐ Other:	1-Flowing C		Spalling, Cracking	Oily Flow Line	☐ Excessive ☐ Inhibited	Odors Colo	☐ Brown ☐ Orange		vo or more indicators)	CONTRACTOR OF THE STATE OF THE	☐ Yes ☐ No	Flow Pool	□ Yes [☑No
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	CHECK if Present	Sewage	D Clear			Section 5: Physical Indicators for Both Flowing and Noi	CHECK if Present						fall Characterization	Potential (presence of two or more indicators)	10X	OND-11-THE MANAGED STOCK OF THE		
Section 4: Physical Indicators for Flowing Are Any Physical Indicators Present in the flow?	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Section 5: Physical Ind	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	T Unlikely	Section 7: Data Collection	1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

ection 1: Backg	ground Data	den ser proposition de la constante de la cons	PEROPERATURE CONTRACTOR CONTRACTO	129 print to 120 cm interestation with the contract of the con			proceed to second the market process of the second to the		
Subwatershed:	CHEMALIS RIVER	~ ~~~ ~		Outfall ID: #	5 WASHINGTON	57.			
	.			Time (Military):	0715				
Investigators:	SPRINGER / RANDICA	<u>'</u>		Form completed by:	SPRINGER				
Temperature (*F):	50	Rainfa	all (in.): Last 24 hours:	Last 48 hours:	Ø				
Latitude: 46° E	57'59'N Long	gitude:	123° 49'21'W	GPS Unit:	GP	S LMK #:			
Camera: NA				Photo #s:					
Land Use in Draina	ge Area (Check all that appl	у):		5					
☐ Industrial			•	Open Space					
Ultra-Urban Res	sidential			☐ Institutional					
🗌 Suburban Reside	ential			Other:					
☐ Commercial				Known Industries:					
Notes (e.g., origin o	of outfall, if known):								
•									
NECKSEL TO SERVE TO THE PROPERTY OF	tak na sir menganjan na panjang kang pang pang pang pang pang pang pang p	Destruction (Stables)	ag kanala apag mengenjaka kanamatan 1949 wilan pada apag mengenjak pamban pada di Arban M	nnedativ viinaanin politik kuu mushaanin tirkiyasi siidir ana	THE PARTY OF COMPONENTS AND ASSESSMENT OF THE PARTY OF TH	CHANGE STATE OF THE PARTY OF TH	estrones contraenco processor de la estrone		
Section 2: Outfa	CENTRAL CONTRACTOR OF A PARTY AND ADDRESS OF STREET, S	in distribution	taper taken museum agen noon was entre on a season accompany	and the second desirable of the second secon		and the second s			
LOCATION	NAMES OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY.	4F/MANAGAR	SH.	CHESCH WATER CHANGE CONTRACTOR CO	DIMENSIONS	-	SUBMERGED		
	1	CMP	☐ Circular	☐ Single	Diameter/Dimensions	3: I	n Water: □ No		
	PVC 🗆	HDPE	☐ Eliptical	Double	30"		Partially I'ully		
Closed Pipe	☐ Steel		□ Вох	☐ Triple					
	Other: NA		Other:	Other:		,	With Sediment: ☐ No		
]			REGISTRATION OF THE PROPERTY O		ļ	☐ Partially ☐ Fully		
ALCON TRANSCOCKES AND STATEMENT SECTIONS OF THE SECTION AND SECTION ASSESSMENT OF THE SECTION ASSESSMENT AS A	Concrete	The Landscope and the landscope in the l	and an extension of the payment of the form where the about the payment	karanan menerangan salah saman penyangan untuk	Arte Salesan ed Artesia (Salesan Salesan Sales				
	☐ Earthen		Trapezoid		Depth:				
Open drainage	☐ rip-rap		☐ Parabolic		Top Width:				
	Other:		Other:		Bottom Width:	-			
☐ In-Stream	(applicable when	ollaatlaa	cooming of the second	7 克尔克奇· A Comit on purpose of community and substituted the state of	on the Comment of the	Commence of the Second Second			
Flow Present?	Yes	₩ No	ACCEPTATION OF THE PROPERTY OF	lp to Section S	ray district 19 st for Sectional Advants countries when the spirit 19 between	an parametri setalbiri Nembi	anamatisfetheredautaturphemistrapateutatur <u>o</u>		
Flow Description	***************************************		THE RESIDENCE OF THE PROPERTY OF THE PARTY O	W to decrease in the second street of the second se	agannak fi da ingila sin da bergapa fi saa makka Tutsay Tabak Tababan yang da sisance saa	THE RESIDENCE OF THE PROPERTY AND	ACTUAL TO THE PROPERTY OF THE		
(If present)	Trickle	Modera	te Substantial						
Section 3: One	ntitative Characteriz	ation		a Language and the state of the	(1975年) [1994年] [1995年] [1995年	iki dina bi ana anjaza ya taka k a anja	nggyyssäddisch (r hillinsins sins) ei dsi nsthraft (daniell deilith gamphöd frå		
SOCIOLOS QUE	HERE THE CONTROL OF THE PROPERTY OF THE PROPER	·	FIELD DATA FOR F	LOWING OUTFALL	ंद्राच्या कृत्यां म् इत्यायकारकार विकास स्थापना व्यापना का विकास स्थापना का विकास स्थापना स्थापना स्थापना स्था इत्यापना स्थापना स्थापन इत्यापना स्थापना स्थापन	And annual partition of the later to the later	REAL PROPERTY AND PROPERTY OF THE PROPERTY OF		
P/	Arameter		RESULT	LOWELL CONTRACT	UNIT	FOI	IIPMENT		
[-]P1 (II	Volume	_	- 1		Liter	<u></u>	Bottle		
□Flow#1	Time to fill	1			Sec				
	Flow depth				Ĭn .	Tag	e measure		
∏Flow#2	Flow width		, ,,		Ft, In	·	e measure		
. It 1044 IFZ	Measured length		1 33				e measure		
	Time of travel			S Stop watch			op watch		
/1	l'emperature				°F Thermometer				
	pH				H Units Test strip/Probe				
Physical Company of the Company of t	Ammonia				mg/L Test strip				

Are Any Physical Indicators Present in the flow? CHECK if INDICATOR Present Present Se	CHECK if	Iow? Yes	1 1	DESCRIPTION Rancid/sour Petroleum/gas	(Jf No, Skip to Section 2) IPTION Peroleum gas	R R	RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor		□ Sulfide	Other:					naistantive
Color		Clear	☐ Brown ☐ Orange	☐ Gray	☐ Yellow ☐Other:	☐ 1 — Faint colors in sample bottle	☐ 2 — Clearly visible in sample bottle] 3 — Clearly visible in outfall flow
Turbidity				See severity		1 – Slight cloudiness	2 - Cloudy	☐ 3 — Opaque
Floatables -Does Not Include Trashii		Sewage (Toilet Paper	Sewage (Toilet Paper, etc.)	.) Suds		☐ 1 — Few/slight: origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	[] 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 5: Physical Indicators for Both Flowing and Non-F	licators for Beti	h Flowing an	id Non-Flor	lowing Outfalls	ls (If No. Skip to Section 6)	tion 6)		
Are physical indicators	CHECK if Present	resent			ESCRI		COMMENTS	A CONTRACTOR OF THE CONTRACTOR
Outfall Damage			Spalling.	Spalling, Cracking or Chipping Corrosion	nipping 🔲 Peeling Paint	11	And the state of t	OCALINATION OF THE PARTY OF THE
Deposits/Stains	THE PROPERTY OF THE PROPERTY O			Flow Line	☐ Paint ☐ Other:			
Abnormal Vegetation			☐ Excessive	[] Inhibited	eg men eller en eller elle		COMO SPRENTE O MARINAS COMO DE PROMETA SE PROPERTO SE	- Carry Carry (Carry Carry
Poor pool quality			Odors	☐ Colors ☐ Excessive Algae	☐ Floatables ☐ Oil Sheen Algae ☐ Other:	TI TIME TO THE TIM	Commence and Compression Commence and Commen	
Pipe benthic growth			🔲 Brown	□ Orange	Green Other:		one of the second and the second seco	
Section 6: Overall Outfall Characterization	fall Characteriz	zation						
Unlikely	Potential (presence of two or more indicators)	nce of two or	more indica		Suspect (one or more i	Suspect (one or more indicators with a severity of 3)	of 3)	
Section 7: Data Collection	žož						- The second	A Consequent of the Consequence
1. Sample for the lab?		☐ Yes	(es	Š. Ž				
		Flow	Nol.	☐ Pool				
3. Intermittent flow trap set?	set?	☐ Yes	es S	E No	If Yes, type: 0BM	BM 🔲 Caulk dam	geografiett einer einer zijt peljestrett noordette han die eine der er einstelle han fereite for einer	arp
The state of the s								

Section 8: Any Non-Illicit Discharge Concerns (e.g., irash or needed infrastructure repairs)?

ection 1: Backgro	THE PERSON AND DESCRIPTIONS AND DESCRIPTIONS AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS O	- Ang Sapan Section of the Company o	er euro de pare en un colonia en	Charles Control & Anna Carles Control Control Control	SANGARA LINA - MANAGARA BANAS ENGAGAN PROPERTURA PARA PARA PARA PARA PARA PARA PARA P			
Subwatershed: CHE	MACIS PIVER		Outfall ID: #6	JEFFERSON ST.				
	- 11 - 0 411		Time (Military):	0720				
nvestigators: Se	RINGER /RANDEH		Form completed by:	SPRINGER				
Temperature (°F):	50 F	Rainfall (in.): Last 24 hours	: 6 Last 48 hours:	ø				
Latitude: 46.58/10	Longitud	ie: 123° 49'2'W	GPS Unit:	GPS LA	ЛК #:			
Camera: NA			Photo #s:					
Land Use in Drainage	Area (Check all that apply):		<i>t</i> ₀					
Industrial		•	Open Space					
Ultra-Urban Reside	ential		Institutional					
Suburban Resident	tial		Other:					
Commercial			Known Industries:					
Notes (e.g., origin of c	outfall, if known):		·					
, 0.								
Activities and the company of the co	topode s new year considerações all considerado de la casa cua y nome se	elaboral pacitic son library we had deducted the the library and the control of t		DATUM HELERIJ SAED-LAIDINGERING MENDELANGERIJNER.	der de la company de la compan			
ection 2: Outfall	UNIVERSITY OF THE PROPERTY OF	Many automotive gate only account on a geography which make you are a co	on marting monthship control with the city with the mass of the city of the ci	patripunkees succession in the second of the				
LOCATION	MATERIAL	BENERAL SERVICE AND SERVICE AN	ЗНАРЕ	DIMENSIONS (IN	I.) SUBMERGED			
	□ RCP □ CM	IP Circular	Single	Diameter/Dimensions:	In Water:			
	☐ PVC ☐ HE	PE Eliptical	☐ Double	ه ۲۰۱۳	☐ Partially ☐ Fully			
Closed Pipe	[Steel	☐ Box	Triple					
	Other:	☐ Other:	Other:		With Sediment: □ No			
☐ Concrete					☐ Partially ☐ Fully			
Pilitiki di Sampunan berang sebah mejubah beranda kerajah di semplan b	Concrete	ering funde sing pap	NOME TO SELECT SERVING SOCIETY STATE TO SELECT SERVING	COLUMN TO THE COLUMN TO A MATERIAL STATE OF THE COLUMN TO				
	☐ Earthen	Trapezoid		Depth:				
☐ Open drainage	☐ rip-rap	Parabolic		Top Width:				
		Other:		Bottom Width:				
The state of the s	Other:							
In-Stream	(applicable when coll	NAME AND PARTY OF PERSONS ASSESSED ASSESSED.	and the second s	nderligssterlig betyden vergen wyserpter beskelden beskelden beskelden by de generalise by de generalise by de	THE CONSTRUCTION OF THE PROPERTY OF THE PROPE			
Flow Present?	Yes	ETNO If No.	Skip to Section 5	STANIST SANSTER STANIST CONTRACTOR STANIST SANSTER SANSTER SANSTER SANSTER SANSTER SANSTER SANSTER SANSTER SAN	######################################			
Flow Description (If present)	☐ Trickle ☐ M	oderate Substantial						
Carrier of the Control of the Contro	the state of the same of the s	THE PROPERTY OF STATE ST	Comment on the American Control of American Co	en andere en sett de seine andere en	AND THE PERSON NAMED OF THE PERSON NAMED IN THE PERSON OF THE PERSON NAMED IN THE PERS			
section 3: Quant	itative Characterizati	MANUFACTURE OF THE PROPERTY OF	R FLOWING OUTFALE	No.	aar voor menschere funktiels termine jakene er an palestekker per traditions de krieste kom en keiste en set e			
ΟΛG	AMETER	RESULT	R FLOWING GOTPALE	UNIT	EQUIPMENT.			
	Volume	WWO W!		Liter	Bottle			
□Flow#1	Time to fill			Sec	- Doute			
	Flow depth			In	Tape measure			
-	Flow width) 35		Ft, In	Tape measure			
□Flow #2	Measured length) 11		Ft, In	Tape measure			
	Time of travel			S Stop watch				
Tei	mperature			°F Thermometer				
	pH			pH Units Test strip/Probe				
A	ımmonia			mg/L Test strip				

CHECK IF Present	and Consequent	DESCRIPTION		RELATIVE SEVERITY INDEX (1-3)	(1-3)
	Sewage Rancid Sulfide Other:	□ Rancid/sour □ Petroleum/gas □ Other:	□ 1 – Faint	2 – Easily detected	distance
	Clear Brown	Gray Yellow Red Other:	1 – Faint colors in sample bottle	Sample bottle	☐ 3 — Clearly visible in outfall flow
		See severity	1 - Slight cloudiness	☐ 2 — Cloudy	☐ 3 — Opaque
	Sewage (Toilet Paper, etc.)	itc.) Suds	☐ 1 — Few/slight: origin not obvious	☐ 2 — Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some, origin clear (e.g., obvious oil sheen, suds, or floating sanjiary materials)
ors for Bet	Section 5: Physical Indicators for Both Flowing and Non-Flo	owing Outfalls (IFNo. Skip to Section 6)	tion 6)		
CHECK if Present	resent	DESCRI		COMMENTS	S
	Corrosi	Spalling, Cracking or Chipping 🔲 Peeling Paint Corrosion	4-7	A THE PARTY OF THE	OCATALISM ANTONOMIA TO CONCERNATION OF THE PROPERTY OF THE PRO
	l Oily	☐ Flow Line ☐ Paint ☐ Other:		enter de constitución de la cons	
	☐ Excessive	e 🔲 Inhibited		Defendent Comment Comment of the Com	Delete ber an eine eine Gerte ber der des
	Odors	☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Excessive Algae ☐ Other:	C		
	Brown	Orange Green Other:		en en elektrisk en de fram en de en	
Section 6: Overall Outfall Characterization	zation	e de la companya de l			
ential (prese	Potential (presence of two or more indicators)		Suspect (one or more indicators with a severity of 3)	of3) 🗌 Obvious	A THE CONTRACT OF THE RESERVE THE PROPERTY OF
AND THE PROPERTY OF THE PROPER				en de la companya de	de papare de la companya de la comp
	☐ Yes	LDAio			
	∏ Flow	Pool			
Intermittent flow tran set?	Yes	\vec{\vec{\vec{\vec{\vec{\vec{\vec{	BM Caulk dam		

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Subventibute C. C. P. C. R.	ACCUALLY INSIGN	ground Data	THE PROPERTY OF THE PARTY OF TH						
Titley Set		CHEHALIS RI	VER	THE WHOSE SERVING PLANTS TO SERVING STATEMENT AND	Outfall ID: #		By a distance to the substitution of the state of the product of the substitution of the state of the state of the substitution of the state of the substitution of th		
Four completed by: Specific					Time (Military):				
Rainful (in.) Last 24 hours Last 48 hours Chord 18 hours Last 48 hours Chord 18 hours	Investigators:	SPRINGER,	PANOICA		Form completed by				
Latitude: 16 5 6 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		50	Rainf		Dast 48 hours:				
Cannon: Para Photo Proce Photo Para Photo Para Photo Para Photo Para Photo Para Photo Para Para Photo Photo Para Photo Photo Para Photo Photo Para Photo	Latitude: 4	6°58'14'N	Longitude:	123° 48'5-7'W		<u> </u>	#:		
Productivial	Camera:	PA	· · · · · · · · · · · · · · · · · · ·		Photo #s:				
Commercial Institutional		age Area (Check all	that apply):						
Suburban Residential	[Industrial			•	Open Space				
Other Commercial Other Commercial	Ultra-Urban R	esidential			☐ Institutional				
Motes (e.g., origin of outfall, if known): Section 2: Outfall Description	Suburban Resi	dential							
Notes (e.g., origin of outfall, if known): Section 2: Outfall Description LOCATION MATERIAL SHAPE DIMENSIONS (IN.) SUBMERGED RCP CMP Circular Single Diameter/Dimensions: In Water: PVC GIDPE Biptical Double Z.4" No Apartially Publy Publ	Fr Commercial			•					
Closed Plpe		of outfall, if known	·)·		Known Industries:	KESTURANTS, I HEA	TRE		
No No No No No No No No	110100 (0,6., 0.16	or outure, is known	ıy.						
Marten	TO CAMPAGE AND PROPERTY OF THE	State of the last	THE STREET STREET, STR	annya takan di pangan kang akan pengganan ang kangan ang ang ang ang ang ang ang ang an	STREET, ST. C. P. S. ST. ST. ST. ST. ST. ST. ST. ST. ST.	M. COLON STREET, COLON STREET, ST. AND STREET,	Oddykraz cecanychani zwenamini auszanie zwenam 1800 br		
RCP CMP Circular Single Diameter/Dimensions: In Waters Closed Pipe PVC HDPE Biptical Double 2.4" With Sediment: Pully Pu	Section 2: Out	fall Description					· · · · · · · · · · · · · · · · · · ·		
RCP	LOCATION	y M	ATERIAL	SP.	IAPE	DIMENSIONS (IN.)	SUBMERGED		
PVC		RCP	□СМР	Circular	Single	THE PARTY OF THE P	THE REAL PROPERTY OF THE PROPE		
Steel		☐ PVC	☐ HDPE	☐ Eliptical	Double	24"	□ №		
Other:	Closed Pipe	Steel							
Concrete				1	· ·		_ ·		
Open drainage	Grantink projektik umbergis skila sing penakanda 14 maja da	Manual Ma		LI Olioi.	L] Other:		☐ Partially		
Open drainage		☐ Concre	ete	T. T.	COME OF THE PROPERTY OF THE PR	to the state of th			
Tip-rap			n			Depth:			
Other: Other: Other:	☐ Open dramag			1		Top Width:			
In-Stream		Other;		Other:		Bottom Width:			
Flow Present?	[] In-Stream	SPECIAL CONTRACTOR CON	CALL SECTION AND SECTION ASSESSMENT AND ASSESSMENT OF THE PARTY AND ASSESSMENT ASSESSMEN	comilac)	na and industrial and				
Plow Description (If present)	THE PROPERTY OF THE PROPERTY OF THE PARTY OF	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	THE RESERVE WHEN PROPERTY AND ADDRESS OF THE PARTY OF THE	AND THE PROPERTY OF THE PROPER	rin to Cookey C	ar i diment i gi storramont arints representativamentopolis karits polimeranos e bet e grandi successor de la	rockon enn hanner enn er fan het felken een war for groes en een een een een een een een een ee		
Section 3: Quantitative Characterization	Flow Description			THE PERSON NAMED OF THE PERSON NAMED IN COLUMN	ир и эссили л	annen senda arrabisan da supunda tinggalarraban da papakan sensia banasa kanasa banasa banasa kanasa banasa ka	のようしの中間は、水に分野の大利を有する大力が上 地できる。 のようない。 では、 では、 では、 では、 では、 では、 では、 では、		
Flow #1 Volume Flow width Neasured length Neasured leng	TO THE PERSON NAMED OF THE	- House and the party of the last of the l	Mileta O Parametera erakat arang diesar parampaksa parampaksa parampaksa parampaksa parampaksa parampaksa param	ne och de finne en fra	to the second second activities a book stress of American Considerate considerate	endry general Aldrew y the publish of a refer to construct of the plant properties that the construct confirme construct.	Rissilia (************************************		
PARAMETER RESULT UNTT EQUIPMENT □Flow#1 Volume Liter Bottle Time to fill See Tape measure Flow depth In Tape measure Flow width ' " Ft, In Tape measure Measured length ' " Ft, In Tape measure Time of travel S Stop watch Temperature °F Thermometer pH pH Units Test strip/Probe	Section 3: Qua	ntitative Chara	ecterization	A transfer to the control of the con		anton epi 191 (100 kili malikus meninan kelebahan kili menekat menekat kenema, menekat menekat	rotsoni qyrigalor (presidentili dell'il dell'il dell'il dell'il dell'il dell'il dell'il dell'il dell'il dell'i		
Volume			· · · · · · · · · · · · · · · · · · ·		FLOWING OUTFALLS	3			
Time to fill See Flow depth In Tape measure	P			RESULT		UNIT	ЕQUІРМЕНТ		
Flow depth	□Flow#I					Liter	Bottle		
Flow width ' ' ' ' ' ' Ft, In Tape measure Measured length ' ' ' ' ' Ft, In Tape measure Time of travel S Stop watch Temperature						Sec			
Measured length Time of travel Temperature Pt, In Tape measure S Stop watch Temperature PH Temperature PH Thermometer PH Thermometer PH Thermometer PH Thermometer						In	Tape measure		
Time of travel S Stop watch Temperature pH pH pH Units Test strip/Probe	□Flow#2	ļ				·	Tape measure		
Temperature PH PH PH Units Test strip/Probe				21			Tape measure		
pH pH Units Test strip/Probe	,	<u></u>	vei						
Ammonia pri Units Test strip/Probe							······································		
Ammonia mg/L Test strip					F)H Units	Test strip/Probe		
	FETTERSHIP OF THE STREET	Ammonia	Transference to the second second second second			mg/L Test strip			

Illinit Discharce Defection and Elimination; Technical Appendices

(e.g., obvious oil sheen, suds, or floating sanitary materials) ☐ 3 – Noticeable from a distance 3 - Some; origin clear ☐ 3 — Clearly visible in outfall flow ☐ 3 - Opaque RELATIVE SEVERITY INDEX (1-3) COMMENTS of origin (e.g., possible suds or oil sheen) \square 2 – Clearly visible in sample bottle ☐ 2 – Some; indications Obvious 2 - Easily detected 2 - Cloudy Suspect (one or more indicators with a severity of 3) ☐ 1 — Few/slight; origin not obvious Caulk dam ☐ 1 — Slight cloudiness ☐ 1 – Faint colors in sample bottle ☐ 1 — Faint (If No, Skip to Section 6) □ OBM Oil Sheen Peeling Paint Other: Other: If Yes, type: (If No, Skip to Section 5) DESCRIPTION ☐ Floatables ☐ Yellow Other: Green 🔲 Rancid/sour 🔲 Petroleum/gas Spalling, Cracking or Chipping Corrosion Paint ☐ Colors ☐ Excessive Algae Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? DESCRIPTION Other: Inhibited See severity ☐ Gray Suds ☐ Red Orange Pool Š ,°, N Flow Line Potential (presence of two or more indicators) Sewage (Toilet Paper, etc.) Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes ☐ Brown Orange ☐ Other: Odors Suds Petroleum (oil sheen) ☐ Brown VIIO 🗌 Are physical indicators that are not related to flow present? ☐ Flow □ Yes ☐ Yes Sulfide Sewage Green ☐ Clear CHECK if Present Section 6: Overall Outfall Characterization CHECK IF Present Intermittent flow trap set? Section 7: Data Collection if yes, collected from: Sample for the lab? Abnormal Vegetation Pipe benthic growth Floatables -Does Not Include Trash!! Poor pool quality Outfall Damage Deposits/Stains INDICATOR INDICATOR Turbidity Unlikely Color Odor

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

ection 1: Backgr		THE PARTY OF THE P		a breamentaine mor machaniscensor	AND DESCRIPTION OF THE PARTY OF		water to the former and a second to the second and a second second		
Subwatershed: (HEHAUS RIVER			·	8 H 55				
'oday's date:	8-16-2011			Time (Military):	0740				
nvestigators:	SPRINGER / RAWAR	71		Form completed by	: SPRINGER	?			
l'emperature (°F):	50	L		Last 48 hours:	Ø	r			
atitude: 46°5	18'20'N Long	itude:	23°48'43 W	GPS Unit:		GPS LMK #:			
Camera: NA				Photo#s:					
Land Use in Drainag	e Area (Check all that apply	/):		**					
Industrial			••	Open Space					
🗗 Ultra-Urban Resi	dential			☐ Institutional					
Suburban Reside	ntial			Other:					
Commercial				Known Industries:					
Notes (e.g., origin of	foutfall, if known):								
TECHNOLOGIANISTY I STEELING THE WAS A PROGRAM TO	CONTROL ESTATE PROPERTY REPORTED TO THE CONTROL OF	enaren errekaren barreta 23	Musika zarozonya yez erusyanya ilik magazatan talimine zarozonya majingi.	iliş hezerde inthonocia iş hiliş tirolikle tiş döğrü kirin profesiolati gülür iç.	ESCONTURE SALES AND ENGINEERING SALES	ang	particocoustify yn Sylvyguiros. Oet times meetre archiver (antifeld)		
ection 2: Outfal	I Description MATERIA	**************************************	SH	APE	DIMENSI	ONS (IN.)	SUBMERGED		
BERTHELLY CONTROL LEASON CONTROL BERTHELLY MANAGEMENT	□ RCP	СМР	Circular	Single	Diameter/Dime	INTERNATION CONTRACTOR OF THE PROPERTY.	In Water:		
	□ PVC □	HDPE	☐ Eliptical	Double	36''		☐ No ☐ Partially		
Closed Pipe	Steel		Вох	Triple			Fully		
Closed File	Other:		Other:	Other:			With Sediment:		
•	Cinor,		Carolina .	LI Other.			Partially Fully		
	Concrete	STACE & Specific Specific State Share Shar	C C	en de commence de la proposition de la commence de		त्रवाच्यात्र व्यवस्थात् । स्वतंत्र स्वतंत्र स्वतंत्र स्वतंत्र स्वतंत्र स्वतंत्र स्वतंत्र स्वतंत्र स्वतंत्र स्व स			
	☐ Earthen		☐ Trapezoid		Depth:		\(\(\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
Open drainage	☐ rip-rap		Parabolic		Top Width:				
	Other:		Other:		Bottom Width:				
☐ In-Stream	CONTRACTOR OF STREET,	collecting							
Flow Present?	☐ Yes	Managaran	llecting samples) [FNo If No, Skip to Section 5]						
Flow Description (If present)	☐ Trickle ☐	Modera	er para di mandri di Meraffit di Calando Prancis in ancia della di competi	A COMMITTEE THE STATE OF THE ST	ak lang kalanan yang di salah salah salah salah salah di		The explicit section of a section of a section of the section of t		
COLUMN TAN CONTRACTOR OF THE PARTY OF THE PA	Literatura Cita ana akada	- <i>11</i>	on Long College Service of Confession Services Services College Services	CETTARIONEN COLLECTIONS PROPERTY CONTRACTOR	ON THE PARTY AND	D. Carry Prince and All Conference of Conservation (Conservation Conservation Conse	MR SAN CONTRACT WATER OF GRANICAL STREET, AND SAN		
section 5; Quai	titative Characteriza	AUOU	FIELD DATA FOR I	FLOWING OUTFAL	LS	CORP CT COTTON OF MINISTER AND CONTRACTOR CONTRACTOR	CONTROL MENTAL MANAGEMENT CONTROL PROPERTY AND		
PA	RAMETER		RESULT		UNIT		EQUIPMENT		
□Flow#I	Volume				Liter		Bottle		
	Time to fill				Sec				
	Flow depth				In	<u> </u>	Tape measure		
□Flow#2	Flow width		, ,,		Ft, In		Tape measure		
	Measured length		, ,,,		Ft, In		Tape measure		
	Time of travel				8		Stop watch		
1	'emperature				°F	Thermometer			
	pH				pH Units	-	Test strip/Probe		
Adherma	Ammonia				mg/L		Test strip		

Outfall Reconnaissance Inventory Field Sheet

4 5 4	Sewage	- Faint - Faint colors in sample bottle - Slight cloudiness - Few/slight; origin vious	2 - Easily detected 3 3 3 3 3 3 3 3 3	3 - Noticeable from a distance 3 - Clearly visible in outfall flow 3 - Opaque 3 - Some; origin clear 5 - Some; original 5 - Some; ori
rity	/sour Petroleum/gas Gray	☐ 1 - Faint colors in sample bottle ☐ 1 - Slight cloudiness ☐ 1 - Eew/slight, origin not obvious	2 - Easily detected 2 - Clearly visible in sample bottle 2 - Cloudy 2 - Some; indications of origin (e.g., possible suds or oil sheen)	3 - Noticeable from a distance 3 - Clearly visible in outfall flow 3 - Opaque 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanjfary materials)
ity	c.) Carey Colored See severity c.) Cother: owing Outfalls DESCRI	1 - Faint colors in sample bottle 1 - Slight cloudiness 1 - Eew/slight; origin not obvious 10n 6)	2 - Clearly visible in sample bottle 2 - Cloudy 2 - Some; indications of origin (e.g., possible suds or oil sheen)	3 - Clearly visible in outfall flow 3 - Opaque 3 - Some; origin clear 6.g., obvious oil sheen, suds, or floating sanitary materials)
dity bles Include Include Include Include Include Include Include Indicators for Both Flowin Indicators that are not related to flo CATOR CHECK if Present Damage CAStains Vegetation	See severity tc.) Suds Other:	□ 1 – Slight cloudiness □ 1 – Few/slight; origin not obvious ifon 6)	☐ 2 - Cloudy ☐ 2 - Some; indications of origin (e.g., possible suds or oil sheen) COMMENT	3 - Opaque 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
bles Include Physical Indicators for Both Flowin al indicators that are not related to flo CATOR CHECK if Present Danage Wegetation Uegetation	bc.) Suds Outher: Owing Outfalls Yes No DESCRI	□ 1 – Fęw/slight, origin not obvious ifon 6)	2 – Some, indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanjtary materials)
Physical Indicators for Both Flowin al indicators that are not related to flo CATOR CHECK if Present I Damage I Vegetation	owing Outfalls Yes Mo DESCRI	ion 6)	COMMENT	
ICATOR CHECK if Present all Damage	DESCRI alling, Cracking or Chipping orrosion		COMMENT	de establishe mange en
	Spalling, Cracking or Chipping Corrosion			
	THE RESERVOIS OF THE PERSON NAMED OF THE PERSO			
	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:			
	☐ Excessive ☐ Inhibited	And the second s		
Poor pool quality	Odors Colors Floatables Oil Sheen Suds Excessive Algae			
Pipe benthic growth	☐ Brown ☐ Orange ☐ Green ☐ Other:		ARRONAL CHARLES AND	
Section 6: Overall Outfall Characterization				
Unlikely Potential (presence of two or more indicators)		Suspect (one or more indicators with a severity of 3)	of 3)	
Section 7: Datz Collection			The second secon	
Sample for the lab?	Tyes Trivo			
If yes, collected from:	☐ Flow ☐ Pool		No.	
Intermittent flow trap set?	☐ Yes ☐ No If Yes, type: ☐ OBM	3M 🔲 Caulk dam	PARTY PROCESS OF THE PARTY OF T	

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

west Discharge Defending and Elimination Technical Appendings

Section 1: Bac	CANADA CONTRACTOR CONTRACTOR CONTRACTOR OF STREET		Diko, ni fizoningko, njek je nikejenski kljinister i Alik njek je teoriognej se klade, nov						
Subwatershed:	CHEMACIS RIV	ER		Outfall ID: #	9 RWER ST.	The second se	Employed Control of the Control of t		
Today's date:	8-16-2011	······································		Time (Military):	0745				
Investigators:	SPRINGER / LA	NOICH		Form completed by	SPRINGER				
Temperature (°F)): 50	Rainf	all (in.): Last 24 hours:	Last 48 hours:	Ø				
Latitude: 46	58'78'N	Longitude:	123° 48' 37W	GPS Unit:	(GPS LMK #:			
Camera: NA				Photo #s:					
	nage Area (Check all the	it apply);							
☐ Industrial				Open Space					
Ultra-Urban R	Residential			☐ Institutional					
Suburban Res	sidential			Other:		•			
Commercial			•						
Notes (e.g., origin	n of outfall, if known):			KHOWII HIGGSU168.					
	·								
CONTRACTOR SANCTON DE CONTRACTOR DE CONTRACT	CARROLLES IN MARKET WAS THE CONTRACT CONTRACTOR OF THE CONTRACTOR	FCI DESTRUCTOR OF THE SECTION OF THE	(1986年) (Carlon 1997) 188 (Carlon 1984) (Partier Transfer) (Transfer) (Partier Transfer)	THE STATE OF STATE OF THE STATE		and the second sections of the section sections of the section sections of the section sections of the section section sectin	introducers (species and authority and the control and the con		
	fall Description	E 11/cl to the last of the las	and the contract of the contra	TIB TOO OFFIS AND STANDS OF TAXABLE WAS A SPECIAL OFFICE AND AND A SPECIAL OFFI					
LOCATIO	Control of Street Lane Address of the Street Lane and Street Lane and Control of the Street L	COLUMN PROPERTY PROPE	CONTRACTOR OF THE PROPERTY OF	APE	DIMENSION	S (IN.)	SUBMERGED		
	□ RCP	☐ CMP	Circular	☐ Single	Diameter/Dimensio	118:	In Water:		
_	□ PVC	HDPE	☐ Eliptical	☐ Double	8"	~	□ No □ Partially		
Closed Pipe	Y Steel		☐ Box	☐ Triple			Fully		
	Other:		Other:	Other:			With Sediment:		
							No Partially		
CONTRACTOR OF THE PROPERTY OF	☐ Concrete		an derrolled and the second	A THE STATE OF THE		THE THE PARTY OF T	Fully		
	☐ Barthen		☐ Trapezoid		Depth:				
Open drainag	e [] rip-rap		☐ Parabolic		Top Width:				
	Other:		Other:		Bottom Width:				
In-Stream	STATE OF THE PARTY	CAN MENTAL CONTRACTOR AND AND ADDRESS OF	A ANNUAL COMPANY SECTION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY AS THE ANNUAL SECTION OF THE PROPERTY	(1985年) (1987年) (1986年)	Principal Colorodor Services and California Colorodor Services and Califor				
Flow Present?	(applicable wi	CONSTRUCTION OF THE PARTY OF TH	NOVO TO THE PROPERTY OF THE PR	CATAO SANCAN		The State of State of the State	NAME OF THE OWNER OWNER OF THE OWNER		
Flow Description	AND THE PERSON NAMED IN COLUMN 2 COMMAND AND A STREET OF THE PERSON NAMED IN COLUMN 2 COLUMN	₽No	If No, Sklj	p to Section S	ology dispersional production, concerning consequences and consequences are consequences and consequences are consequences and consequences are consequences and consequences are consequences ar	500 Table 10 Table 12 A 40 E 10 E			
(If present)	☐ Trickle	☐ Moderate	Substantial						
Section 3: One	ntitative Characte		· 1985年,1985年,1986年,1986年,1986年,1986年,1986年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年	THE PERSON NAMED AND PROPERTY OF THE PERSON			The constitution of the state o		
The MAIL OF CHA	more and a company of the company of	rization	EALT IS IN THE PARTY OF THE PAR		क्ष्म हुन्त्रोति । देवीय तो प्राप्त अस्ति श्रीति हर्त्या विद्यालया । स्वति कृष्ण स्वतः प्राप्त क्ष्म स्वतः प्र	**************************************			
P	ARAMETER		FIELD DATA FOR FL				···		
	Volume		RESULT		UNIT	EQ	UIPMENT		
□Flow#I	Time to fill				Liter		Bottle		
	Flow depth				Sec				
□Flow #2	Flow width		·		In The In		pe measure		
∐110W #Z	Measured length		, ,,		Ft, In Ft, In		pe measure		
	Time of travel				······································		pe measure		
	l'emperature			8			top watch		
	pH			oF.			Thermometer Test strin/Probe		
_	Ammonia				pH Units		Test strip/Probe		
CHARLES OF THE PARTY OF THE PAR	NATIONAL PROPERTY OF STREET STREET, ST	STELL BOOK OF THE PARTY OF THE			mg/L	Test strip			

""- " Pinchara Pataviin and Flimination: Technical Appendices

	EX (1-3)	☐ 3 – Noticeable from a distance	 		□ 3 – Opaque		(e.g., obvious oil sheen, suds, or floating sanitary materials)		NTS		de la graphic de la company		A THE RESERVE OF THE PROPERTY		A CONTRACTOR OF THE PROPERTY O		\$						
	RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected	ri elificity sylveoity	sample bottle	2 - Cloudy	☐ 2 — Some; indications	of origin (e.g., possible suds or oil sheen)		COMMENTS	e de mandre de la companya de la co		A THE RESEARCH OF THE PARTY OF		AND COMMENTAL AND COMENTAL AND COMMENTAL AND COMMENTAL AND COMMENTAL AND COMMENTAL AND			of 3) \square Obvious						
	N.	☐ 1 — Faint		☐ 1 — Faint colors in sample bottle	1 – Slight cloudiness		☐ 1 – Few/slight: origin not obvious	مئن	(O VOT)				ary sinty (III) in mail the special constitution and the state of the special constitution of the special constitu	ដ			Suspect (one or more indicators with a severity of 3)	And the second s	A CONTRACTOR OF THE PROPERTY O			☐ OBM ☐ Caulk dam	
(Jf No, Skip to Section 5)	DESCRIPTION	sour 🗌 Petroleum/gas		☐ Gray ☐ Yellow ☐ Red ☐ Other:	1	events.	□ Suds □ Other:		Z S	DESCRIPLION	g or Chipping 🔲 Peeling Paint	ne 🔲 Paint 🔲 Other:	Inhibited	Colors Floatables Oil Sheen Excessive Algae Other:	ange [Green Other:		Suspect (one or more	TOTAL PROPERTY OF THE PROPERTY	The second secon	べる	Pool	If Yes, type:	
g Outfails Only		Sewage Rancid/sour	☐ Sulfide ☐ Other:	Clear Brown	Semis I	6000	Sewage (Toilet Paper, efc.)	owing (Yes	ent	Spalling, Cracking or Chipping Corrosion	Oily Tlow Line	ssive	Odors C C C C C C C C C C C C C C C C C C C	☐ Brown ☐ Orange	Q. (.)	Potential (presence of two or more indicators)	KERNACON OF SEEN ON A CHARLES AND	The second secon	☐ Yes ☐ No	□ Flow	☐ Yes	
dicators for Flowing	CHECK	nt						dicators for Both F	that are not related I	CHECK if Present							Potential (presence		ction		. u	m set?	
Section 4: Physical Indicators for Flowing Outfalls Only	Alecany Layston and	MULTATOR	Odor	Color		Turbidity	Floatables -Does Not Include Trash!!	Section 5: Physical Indicators for Both Flowing and Non-Fl	Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	The second secon	A bormal Vegetation	Poor pool quality	Pine benthic growth		Section 6: Overall Unital Children Lister Land.		Section 7: Data Collection	1 Sample for the lab?		-	ļ

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Back	groun	H Data	Mark Property and the second	B-W/Contributed And in Product Additional Andrews						
Subwatershed:	CHEN	IALIS LIVER		A CONTRACTOR OF THE PROPERTY O	Outfall ID: # 10	STATE ST.		CONTRACTOR OF STREET, CALCULAR AND		
Today's date:		6-2011			Time (Military):					
Investigators:	SPR	INGER /FANDE	H		Form completed by:					
Temperature (°F):	50	2	Rainfa	dl (in.): Last 24 hours:	Last 48 hours:	Ø				
Latitude: 46	°58′.	3/N Long	itude:	123° 48' 40'W	GPS Unit:	G	PS LMK#:			
Camera:					Photo#s:					
Land Use in Drain	age Are	a (Check all that apply	'):		•					
☐ Industrial				•	Open Space					
☐ Ultra-Urban Ro	esidentia	al			☐ Institutional					
Suburban Resi	dential				Other:	· · · · · · · · · · · · · · · · · · ·				
Commercial								_		
Notes (e.g., origin	of outfa	all, if known):								
New With Control of the Control of the Party of Control of the Con	Der ig Wingstike	BENTAL BOOK OF THE PROPERTY OF	Marin Bergeley (Marin St. Marin St. Mari		ndesser one en e	es <u>out public and any statement property and the</u> Me	TREES HAVE DON'T HOLD TO			
Section 2: Outf	No Confession of Street, or other Designation of the Confession of	A TAXABLE MANUAL PRODUCTION AND PARTY AND PART		THE RESIDENCE OF PERSONS AND ASSESSED FOR STREET	200 TOTAL TO A STATE OF THE TOTAL OF THE TO	and the state of t	**************************************	gan many production and a second control of the second control of		
LOCATION	darine benderaban	MATERIAL	Victoria Victoria de Trans	SH/	THE RESERVE AND ADDRESS OF THE PERSON OF THE	DIMENSIONS	HIGH THE WAY THE REAL PROPERTY AND ADDRESS OF THE WAY	SUBMERGED		
Manager Control of the Control of th		}	CMP	☑ Circular	Single	Diameter/Dimension	18 :	In Water:		
			HDPE	☐ Eliptical	☐ Double	12"		Partially Fully		
Closed Pipe		Steel Steel		□ Вох	Triple					
☐ Other:				Other:	Other:			With Sediment:		
OPERATOR DESIGNATION OF THE PROPERTY OF THE PR								Partially Fully		
		☐ Concrete			A Life To de De la Proposition de la company de la comp	AND SALES OF ALL BUTTON OF SALES OF SAL	Committee of the Commit			
По		☐ Barthen		Trapezoid	Depth: Top Width:					
Open drainage	3	☐ rip-rap		Parabotic						
\$		Other:		Other:	Other: Bottom Width:					
☐ In-Stream	Police our year e	(applicable when e	llecting	samples)	kiningilisi kan partamanan dan selah baharakaya kan inda yang kaya dasah ja	encol march otto may a because of the trade of the section of	Privalynel-Charles (Order 100)	San basharika kalasi kalas		
Flow Present?	- Company of the Company	☐ Yes	PNO	If No, Ski	p to Section S	eri denderas purcularit kalen en disaktioni, elektroneria pur principal	EURO ET COMMUNICACION NA			
Flow Description (If present)		☐ Trickle ☐	Moderat	e 🔲 Substantial	adia and and an english and a second	erning filotopia i dikanggani, e paradika tetanggihi katalangan ya 22 dipenci	ACCUPATION AND AND AND AND AND AND AND AND AND AN	KINY TORKAN 1994 PANJANANA SANCANA EN UKOTATIAN MARIN		
Section 3: Oua	ntitat	ive Characteriza	tion			reder year-staffer, suit de proside de reder part a recept de la licitat y installación y absenties	CONTROL OF THE SEAL OF PERSONS	医医克伦德氏征检查检查 医二氏征 医二氏征 化二元二烷二烷 计分子 计分子 化二二烷 经		
THE RESIDENCE OF THE PARTY OF T		TELEVISION PROPERTY OF THE PRO	All produced const	FIELD DATA FOR F	LOWING OUTFALL	enne printerioren ar en	1970	ill is remediated and the remaining of t		
P	ARAMI	ETER		RESULT		UNIT	E(OTIPMENT.		
□Flow#1		Volume		350.55		Liter		Bottle		
		Time to fill				Sec				
		Flow depth				In	Т	ape measure		
□Flow#2		Flow width		·		Ft, In	Т	ape measure		
		Measured length)))		Ft, In	Т	ape measure		
		Time of travel				S		Stop watch		
	Temper					°F Thermometer				
	PH		-			pH Units Test strip/Probe				
	Ammo	onia				mg/L Test strip				

Outfall Reconnaissance Inventory Field Sheet

rs for Flowing Outfalls Only (If No. Ship to Section 5)	ECK # DESCRIPTION RELATIVE SEVERITY INDEX (1-3)	Sewage Rancid'sour Petroleum/gas	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ 1 - Faint colors in ☐ 2 - Clearly visible in ☐ 3 - Clearly visible in outfall flow outfall flow ☐ Green ☐ Orange ☐ Red ☐ Orther:	See severity \square 1—Slight cloudiness \square 2—Cloudy	Sewage (Toilet Paper, etc.) ☐ Suds ☐ 1 - Few/Slight; origin ☐ 2 - Some; indications ☐ 3 - Some; origin clear ☐ (e.g., obvious oil sheen, suds, or floating sheen) ☐ Other:	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls (If No. Skip to Section 6)	DESCRI	☐ Spalling Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	☐ ☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	☐ Excessive ☐ Inhibited	Odors Colors Ploatables Oli Sheen Odors Other:	☐ Brown ☐ Orange ☐ Green ☐ Other:	iaracterization	Potential (presence of two or more indicators) Suspect (one or more indicators with a severity of 3) Obvious		□ Yes □No	Flow Pool	1
No.			Brown Orange		efc.)	ir Both Flowing and Non-Flowing Out		Spalling.		☐ Excessive	Odors	☐ Brown	ıcterization	(presence of two or more indicators)	A CALLED AND AND AND AND AND AND AND AND AND AN	Chinaton	Flow	
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	INDICATOR Present	Odor	Color	Thrhidity	lude	Section 5: Physical Indicators for Both Flowing and Nor	Are physical mulcalors mat are no INDICATOR CHE	Oufali Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	Valikely Potential	Section 7. Bata Collection	1. Sample for the lab?	2. If yes, collected from:	

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Illieit Discharge Defection and Flimination: Technical Appendices

Section 1: Back	groun	id Data	maria Penderaky S DMA/CO										
Subwatershed:	CHE	HAUS RIVE	R		Outfall ID: # //	' HERON ST. (WEST						
Today's date:	8-1	16-2011			Time (Military): 0815								
Investigators:	SPR	ZINGER / FAMI			Form completed by: SKINGER								
Temperature (°F):	.50	o		all (in.): Last 24 hours:									
Latitude: 46°58'36'W Lo			ngitude:	123°48'44W	GP\$ Unit:	GPS LM	IK.#:						
Camera: N		<u>-</u>			Photo #s:								
Land Use in Drain	age Are	ea (Check all that ap	ply):										
☐ Industrial				•	Open Space								
Ultra-Urban R	esidentia	al			☐ Institutional								
Suburban Resi	dential				Other:								
Commercial					Known Industries:								
Notes (e.g., origin	of outfa	all, if known):											
				·									
	**************************************	AND PROPERTY AND P	dologica esta esta esta esta esta esta esta est	SACRE STORE OF THE COMPANY OF THE CO			Parameter species and an action than the state of the sta						
Section 2: Out		A STATE OF THE PERSON NAMED OF PERSONS ASSESSED.											
LOCATION	A	MATERIA		CONTRACTOR OF THE PARTY OF THE	APE	DIMENSIONS (IN.	TO SHARE THE PARTY OF THE PARTY						
		}] CMP	Circular	Single	Diameter/Dimensions;	In Water:						
Closed Pipe		□ PVC □ HDP		☐ Eliptical	☐ Double	12"	_ ☐ Partially ☐ Fully						
		☑ Steel		☐ Box	☐ Triple		With Sediment:						
		Other:		☐ Other:	☐ Other:		□ No						
							☐ Partially ☐ Fully						
		☐ Concrete			in Allen and the second property of the control of the second and								
I		☐ Earthen		Trapezoid		Depth:							
Open drainage	c	rip-rap		Parabolic	-	Top Width:							
		☐ Other:		Other:		Bottom Width:							
☐ In-Stream	***********	(applicable when	collecting	samples)		THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED AND ADDRESS O							
Flow Present?		☐ Yes	₽No	THE RESERVE THE PARTY OF THE PA	ip to Section 5								
Flow Description (If present)		☐ Trickle ☐	☐ Moderate		A. C.	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	ekaleh dalaman sa akan paman yang menerang ang akan 1800 da banasan yang dalah pang ang ang ang ang ang ang an						
	ntitati	ive Characteriz	rotion		terit ikki alikuwan siral kerimati yanta 1994 ya Mata da kara militaran sundara	on the other transfer of the state of the st	Rational Communication Communications are about of March 17 Checking representations appropria						
section 3; Qua	muau	ive Characteriz	ation	FIFI D DATA FOR I	LOWING OUTFALL								
P	ARAME	eter	. T	RESULT	LOVING COTTALL	UNTT	EQUIPMENT						
		Volume		T COLOR OF THE		Liter	Bottle						
□Flow#1		Time to fill	-			Sec	2000						
Flow#2		Flow depth				In	Tape measure						
		Flow width		> 3>		Ft, In	Tape measure						
		Measured length		3 33		Ft, In	Tape measure						
		Time of travel			-	S	Stop watch						
	Tempera	ature				°F.	Thermometer						
	рH				1	oH Units	Test strip/Probe						
	Ammo	nia				mg/L	Test strip						

Outfall Reconnaissance Inventory Field Sheet

- Andrews	es es	.g		sar oating s)								ſ					
(1-3)	☐ 3 — Noticeable from a distance	☐ 3 — Clearly visible in outfall flow	☐ 3 — Opaque	5 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)		S							Marie Chapter (grandente Principa d'Alberto Principa de la Companyo de la Company			- The state of the	
RELATIVE SEVERITY INDEX (1-3)	🔲 2 – Easily detected	2 – Clearly visible in sample bottle	2 - Cloudy	2 – Some; indications of origin (e.g., possible suds or oil sheen)		COMMENTS	e de la complementación de la completación de la completación de la completación de la completación de la comp			Alle and the second			3) 🗌 Obvious	A second			
RELA	□ 1 – Faint	1 – Faint colors in sample bottle	☐ 1 — Slight cloudiness	☐ 1 — Few/slight; origin not obvious	ion 6)							e de la composition della comp	Suspect (one or more indicators with a severity of 3)				BM Caulk dam
N.O.	eum/gas	☐ Yellow ☐Other:			IIs No (If No. Skip to Section 6)	ESCRI	hipping 🔲 Peeling Paint	☐ Paint ☐ Other:		☐ Floatables ☐ Oil Sheen e Algae ☐ Other:	☐ Green ☐ Other:		Suspect (one or more in				If Yes tyne. OBM
DESCRIPTION	Rancid/sour Petroleum/gas	Brown Gray	See severity	Paper, etc.) Suds sheen) Other:	Non-Flowing Outfalls		Spalling, Cracking or Chipping Corrosion	Oily Flow Line	Excessive 🔲 Inhibited	Odors Colors Colors Colors Colors Colors	☐ Brown ☐ Orange	-	ore indicators)	,	on E		i.V.
	Sewage C	Clear Creen		Sewage (Toilet Paper, etc.	th Flowing and I	Present						ization	Potential (presence of two or more indicators)		☐ Yes	Flow	Vec
CHECK if Present					ndicators for Be	CHECK IF Present						utfall Character] Potential (pres	ection	è	.田(on cot?
INDICATOR Present	Odor	Color	Turbidity	Floatables -Does Not Include Trashil	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	☑ Unlikely	Section 7: Data Collection	1. Sample for the lab?	2. If yes, collected from:	Tutomittont florit tron cato

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

CONTRACTOR I L ALCOHOLOGICALIONE	STORIGITATION OF THE PROPERTY	LANGE OF LITTLE BY THE STREET, SEPTEMBER OF THE STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET,		VISTORIAL DESCRIPTION OF THE PROPERTY OF THE P	nayanganya ke amana menjada ana da ka	NUMBER OF STREET	PROPERTY OF THE PERSON NAMED IN POST OF THE		
	CHEMALIS RIL	nER		Outfall II): # _{/2}	Wishkah	S+.		
Today's date:	8-16-2011			Time (M					
Investigators:	SPRINGER /	CANDICH		Form cor	npleted by:		P.		
Temperature (°F):			ll (in.): Last 24 hours:		48 hours:	ø			
Latitude: 46°5	78'37'N	Longitude:	23° 48'44'W	GPS Uni	t:				
Camera:	NA	·····		Photo #s:					
Land Use in Drain	age Area (Check all tha	at apply);		•	45				
☐ Industrial			•	☐ Open	Space				
Ultra-Urban Re	esidential			☐ Instit	utional				
Suburban Resid	dential			Other:					
Commercial			•					_	
	of outfall, if known):			Tallowii i					
notos (o.g., origin	of ourient, iz knowing.								
	The state of the s	The second secon			MATERIAL PROPERTY AND ASSESSED.	KAN BERTANDAN PARING PA		PATONICONIO PROGRAMANA TRANSPERSA PROGRAMANA PROGRAMANA PROGRAMANA PROGRAMANA PROGRAMANA PROGRAMANA PROGRAMANA	
Section 2: Outf	all Description	Mario adologi belg annung pografi (1965), majo pografi annung m	englisk van Joseph van Sephen Gerkingsberk (sind van Joseph Sephen Joseph Van Dennes Van Joseph van Einstein d				distribution of the state of th		
LOCATION	THE REAL PROPERTY AND PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF	ERIAL	SHAPE			DIMENSIC	ns (In.)	SUBMERGED	
	☐ RCP	☐ CMP	☐ Circular	☐ Single		Diameter/Dimen	sions:	In Water:	
	☐ PVC	HDPE	☐ Eliptical	☐ Double		12"		No Partially	
Closed Pipe	☐ Steel		□ Вох	☐ Triple				Fully	
	Other:		☐ Other:	Other:				With Sediment:	
								☐ Partially ☐ Fully	
Parallel Control of the Control of t	Concrete	The Control of the Co	Managarahan (Company to Managara and Santa Articles (Company)	CORPORATION STANSACTION OF THE PROPERTY OF THE	200 mg of Carolina and American State and	erifiki makada merupakan penyelakan pela			
	Earthen		☐ Trapezoid		Depth:				
Open drainage	e [Parabolic	Top Width:					
	☐ rip-rap		Other:	☐ Other:					
ентипистикумотимующимунуфуна	Other:	Market and the Control of the Contro	HANNE THE PROPERTY OF THE PROP	2/EuroPhilis transfers programme applicable (SP)	No. 12 of Control of the State	negaciono de propositivo de la constanta de la			
In-Stream	COLUMN TO SERVICE AND ADDRESS OF THE PARTY O	vhen collecting	NAME OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY.		MARINET ELLINGLES LACTOR (LINGS)			and Address and the Control of the C	
Flow Present?	Yes	☐ Yes ☐No If No, Skip to Section 5							
Flow Description (If present)	☐ Trickle	☐ Moderat	e Substantial	n todana ny pou kalen katen at ma		and the acceptant of the state	apparate (page of the page on the page of		
Section 3: Qua	ntitative Charact	erization	CHANGE BOOK OF THE STATE OF THE	NAMES OF THE PERSONS ASSESSMENT ASSESSMENT ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS A		Na gyardras s de State National Company de State (1985) de State (1985) de State (1985) de State (1985) de Sta	ACTACON THE STATE OF THE STATE	of the interpretation	
		· · · · · · · · · · · · · · · · · · ·	FIELD DATA FOR I	LOWING	DUTFALLS				
P	ARAMETER	·	RESULT		UNIT		E	QUIPMENT	
□Flow#1	Volume					Liter		Bottle	
	Time to fill				Sec		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
	Flow depth				In			ape measure	
□Flow #2	Flow width	5 35				Ft, In		ape measure	
	Measured leng					Ft, In	Tape measure		
	Time of travel				S			Stop watch	
	Temperature pH					ok	Thermometer The train (Duch o		
						-I Units	Test strip/Probe		
	Ammonia	-			mg/L		Test strip		

Illicit Discharge Defection and Elimination: Technical Appendices

(e.g., obvious oil sheen, suds, or floating sanitary materials) ☐ 3 — Noticeable from a 3 - Some; origin clear ☐ 3 — Clearly visible in outfall flow 3 - Opaque RELATIVE SEVERITY INDEX (1-3) COMMENTS of origin (e.g., possible suds or oil sheen) ☐ 2 – Some; indications \square 2 – Clearly visible in sample bottle Obvious ☐ 2 – Easily detected ☐ 2 - Cloudy Suspect (one or more indicators with a severity of 3) ☐ 1 — Few/slight; origin not obvious Caulk dam ☐ 1 — Slight cloudiness ☐ I — Faint colors in sample bottle ☐ 1 - Faint (If No, Skip to Section 6) □ OBM Oil Sheen Peeling Paint ☐ Officer: If Yes, type: ☐ Other: (If No, Skip to Section 5) DESCRIPTION ☐ Colors ☐ Floatables ☐ Excessive Algae Tellow Green Rancid/sour Petroleum/gas Spalling, Cracking or Chipping Corrosion ☐ Oily ☐ Flow Line ☐ Paint DESCRIPTION Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Yes Z Other: See severity Inhibited ☐ Gray ☐ Suds ☐ Red Orange ☐ Pool Š, Š, 100 Potential (presence of two or more indicators) Sewage (Tollet Paper, etc.) Excessive Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? \(\text{\text{T}}\) Yes ☐ Brown Orange Petroleum (oil sheen) Odors ☐ Brown Are physical indicators that are not related to flow present? ☐ Flow ☐ Yes ☐ Yes Sewage Sulfide Green ☐ Clear CHECK if Present Section 6: Overall Outfall Characterization Are Any Physical Indicators Present in the flow? |CHECK if Present Section 7: Data Collection Intermittent flow trap set? If yes, collected from: Sample for the lab? Abnormal Vegetation Pipe benthic growth Floatables -Does Not Include Trash!! Poor pool quality Outfall Damage INDICATOR Deposits/Stains INDICATOR Turbidity Unlikely Color Odor 团

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Back	CONTRACTOR	CONTRACTOR OF THE PROPERTY OF	SCORES CORES ASSURE		and the second s		A STATE OF THE STA	
Subwatershed:	Chel	halis River		PACIDA LA COLORA DE LA COLORA DEL COLORA DE LA COLORA DEL COLORA DE LA	Outfall ID:	#13	E & C	The state of the s
Today's date:	8-1	16-2011			Time (Milita		9900	
Investigators:	Ran	dich Springer			Form compl		Springer	
Temperature ("F):	5	\mathcal{D} .	Kainfa	all (m.): Last 24 hours:	ø Last 48	3 hours: 🛭		
Latitude: 46°5	8'4	ow Longitu	.ide:	123° 48′ 43 W	GPS Unit:		GPS LMK #	:
Camera: NA					Photo #s:			
Land Use in Drain	age Are	a (Check all that apply):			•	**		
☐ Industrial				•	Open Sp	ace		
Ultra-Urban Ro	esidentia	al			☐ Institutio	onal		
Suburban Resi	dential				Other:			
☐ Commercial					Known Indi	ustries:		
Notes (e.g., origin	of outfa	all, if known):						
				*				
THE CONTRACTOR OF THE PARTY OF THE PROPERTY OF	erranu (polyrapa (pe m)	s programme and complete the resource and complete state of the co	rinamentus estat	makinak menumbanan alah Contabbilah Panta-Pantanya dan melahan salahan yangah adakan sa	Name of the Party	nininingan selektrasiankan kentresianka	anter CES, hogo-scoppy green and an anterpolitic security for I section for their sport sport, which we need	llaria (reterration de descriptor de la company de la comp
Section 2: Outf	eddagolodiom Rivell •	A TRANSPORTER AND ADDRESS OF TAXABLE PARTY.	erconnocon		苏西州北南洋南州 中亚苏州北南南南南南南南南南南	AND THE PLANT OF SHIELD SHIP SHIP SHIP SHIP SHIP SHIP SHIP SHIP		an ing ang ang ang ang ang ang ang ang ang a
LOCATION	enemenenensus A	MATERIAL	maniformie se nostan	A SECURE AND ADDRESS OF THE PROPERTY OF THE PR	APE		DIMENSIONS (IN.)	SUBMERGED
		□ RCP □ CI		E Circular	☐ Single	Di	iameter/Dimensions:	In Water:
		□ PVC □ HI	DPE	☐ Eliptical	☐ Double		30"	Partially Fully
Closed Pipe		Steel		□ Вох	Triple			
		Other:		Other:	Other:			With Sediment:
								☐ Partially ☐ Fully
Pyrolidan promise many organizacy jerystelejsty samenen		Concrete	acum-modules	The state of the s	Дження развидунення стали по на	Search Secretary Secretary Secretary		
		☐ Barthen		Trapezoid			epth:	
☐ Open drainag	e	☐ rip-rap		Parabolic		To	op Width:	
		Other:		Other:		В	ottom Width:	
☐ In-Stream	DANIEL WATER	(applicable when coll	lecting	samples)	78036863 Olef wysopole w publikaladese sany sa	SCORESCIONARY AND PROPERTY.	azur yanaya akasi da kakan nake akan da karan da karan da karan da aran da karan da aran da aran da aran da ar	
Flow Present?	TACKETE IN THE	THE RESERVE AND ADDRESS OF THE PARTY OF THE	[] No	APPLICATION OF THE PARTY AND T	lp to Section 5	ELL TOPOLOGICA CONTRACTOR AND STREET TO THE	COLUMN HOUSE HOUSE THE STREET OF THE STREET	HALAN AN HALAN STREET FOR PLANTING A THROUGH A STREET OF THE STREET OF T
Flow Description	VIII (C. P. C. P. C. P. C. C. C. P. C.	A MANAGEMENT AND	CONCORDÍNCES MA	The state of the s	The property of	PATTORI THE LEMPSHEEDILENGER WHEN	errikan seperi (estockik missipalahan saturmasa) (seperikan saturasahan persadahan persadahan persadahan persa Seperikan seperikan sebagai kempulan sebesahan sebesahan sebesahan sebesahan sebesahan sebesahan sebesahan seb	tersanski soppper til skræmener stad 200 och El den den ensenski stade fra
(If present)	Ç QuyE SV NASH TÜRĞE	☐ Trickle ☐ M	Ioderat	e Substantial	n tradiminado con delpresido del estrico processo	Name of the Association of the A		annous resease and a Try of the College of the Coll
Section 3: Qua	ntitati	i <u>ve Characterizati</u>	on					
The state of the s	ZAMON TO STATE OF THE STATE OF	artist 1 cm 2 propriet and a second second contract and a second c	SALECTIC CONTRACTOR OF SALES	FIELD DATA FOR F	LOWING OU	TFALLS	e de grande state en	ten in the state of the state o
P	ARAMI	eter		RESULT		UN	rr l s	EQUIPMENT
□Flow#1		Volume		<u> </u>		Lite		Bottle
F=17 10 M 11 1		Time to fill				Sec	>	
		Flow depth				In		Tape measure
∏Flow #2		Flow width		, ,,		Ft, I	in	Tape measure
•		Measured length		2)		Ft, I	ĺn .	Tape measure
		Time of travel			-	S		Stop watch
	Tempera					oF		Thermometer
	pH		ļ			pH U	nits 7	Test strip/Probe
	Ammo	nia	L			mg/	'L	Test strip

Outfall Reconnaissance Inventory Field Sheet

	(1-3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow	☐ 3 — Opaque	[] 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanjtary materials)		Į,					OLIVE STATE OF THE						
	RELATIVE SEVERITY INDEX (1-3)	2 – Easily detected	2 – Clearly visible in sample bottle	□ 2 – Cloudy	☐ 2 — Some; indications of origin (e.g., possible suds or oil sheen)		COMMENTS			- Charles - Char	Onese Charles and Charles Commence and Charles			3) 🗌 Obvious				може волистия в наружения обстреней (петступения) политивания
	RELA	□ 1 – Faint	1 – Faint colors in sample bottle	☐ 1 — Slight cloudiness	☐ 1 — Few/slight, origin not obvious	(on 6)								Suspect (one or more indicators with a severity of 3)				M Caulk dam
s Only No (If No, Skip to Section 5)	DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Yellow ☐ Otange ☐ Red ☐ Other:	See severity	oilet Paper, etc.) 🔲 Suds (oil sheen) 🔲 Other:	d Non-Flowing Outfalls	DESCRI	Spalling, Cracking or Chipping Peeling Paint Corrosion	□Oily □ Flow Line □ Paint □ Other:	□ Excessive □ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ Brown ☐ Orange ☐ Green ☐ Other:			ACCIO CARRAGANIA PIETA NA CARRAGANIA PARA NA CARRAGANIA NA	res III No	low Pool	es III No If Yes, type: OBM
s for Flowing Outfalls at in the flow? \(\sime\) Yes	CHECK if Present	☐ Sewage ☐ Sulfide	Clear Creen		Sewage (Toilet Paper, etc	s for Beth Flowing an	CHECK if Present						aracterization	Potential (presence of two or more indicators)	The state of the s	Ves	Flow	Yes
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	INDICATOR Pres	Odor	Color	Turbidity	Floatables -Does Not Include Trash!	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	☑ Unlikely ☐ Potenti	Section 7: Data Collection	1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Back	groun	id Data	PERSONAL PROPERTY.										
Subwatershed:	Che	halis River			Outfall ID: # 14	D. ST	AND ADDRESS OF THE PARTY OF THE	entropial de la programme actività de parties antipata (mentropial de parties de la programme					
Today's date:		16-2011			Time (Military):								
Investigators:	Spr	inger / Rundich			Form completed by:								
Temperature (°F):		5	Rainfa	all (in.): Last 24 hours:	Last 48 hours:	Ø'							
Latitude: 46°	58'4	Z'~ Long	itude:	123°48'41'W	GPS Unit:		GPS LMK #:						
Camera: N					Photo #s:								
Land Use in Drain	age Are	a (Check all that appl	/) :		Ps.								
☐ Industrial				•	Open Space								
Utra-Urban Re	esidenti	al			☐ Institutional								
Suburban Resi	dential				Other:								
☐ Commercial					Known Industries:								
Notes (e.g., origin	of outfa	all, if known):		······································									
Account to the state of the sta	THE CONTRACTOR	atika verosisti (que college com esta presenta esta per com e	MARKALOWO APPOIN	rayeline) discounted to the Contral production of the Contral production of the Contral	On the committee of the committee of the state of the sta	ni (jez jež glaž _{i (je} gga (pap jegdi zazona deferandik) zameni zazona zazo	BBQ BCB(\$144en)244 mileculos consentad	ing the same of the contract o					
Section 2: Outf	THE REAL PROPERTY.	scription MATERIAI		A PARTY OF THE PROPERTY OF THE PARTY OF THE	contractibility contention with process to the late to the contraction of the contraction		Bellet Market Colore was carried a						
LOCATION	Arram Harrison	ACCUPATION AND ASSESSMENT OF THE PROPERTY OF T	With the second second second	SH.	APE	DIMENSIO	THE RESERVE OF THE PARTY AND PARTY AS NOT THE PARTY.	SUBMERGED					
			CMP		Single	Diameter/Dimens	ions;	In Water: ☐ No					
			HDPE	Eliptical	☐ Double			☐ Partially ☐ Fully					
Closed Pipe		[FSteel		□ Вох	Triple			With Sediment:					
		Other:		☐ Other:	Other:			☐ No ☐ Partially					
THE AMERICAN COLUMN AND AND AND AND AND AND AND AND AND AN								Fully					
		Concrete		☐ Trapezoid		Davida	A STATE OF THE STA						
Over durings		☐ Earthen				Depth:							
Open drainage	е	□ гір-гар		☐ Parabolic	-	Top Width:							
		Other:		Other:		Bottom Width:							
☐ In-Stream	THE PERSON NAMED IN	(applicable when c	ollecting	samples)	r Richard Core to opposite or quarter and a subsection of the security of a design of the security of the secu	THE RESERVE OF THE PARTY OF THE	MATERIA CONTRACTOR OF THE PRODUCTION OF THE PROD	Made alabaha kali sebaha bada bada bada bada bada bada bada					
Flow Present?		☐ Yes	[] No	If No, Ski	ip to Section S	; kidamir i ipodijo dobila debiva de 1900 kilome SP Albertanov edoj de	WATER THE RESIDENCE AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSO	nt de de para trama mandre y sala mange e transmissa très de sobrie e sobre d'independent se seguin					
Flow Description (If present)		☐ Trickle ☐	Moderat	e [] Substantial		nevy met die kry sier voord op een de Kalle (die 1865 de 1865 d		PROJECT STATEMENT OF THE PROJECT OF					
Section 3: Qua	ntitat	ive Characteriza	tion										
WEST THE PERSON NAMED OF T	ellomikaan suutuus	TO STATE OF THE PARTY OF THE PROPERTY OF THE PARTY OF THE		FIELD DATA FOR F	LOWING OUTFALLS	met perket (stansmissionen meter vor visionen hat i	Manuscript Chilesia Shireyana maranenya 144441	HI DV TO THE TOTAL PROPERTY OF THE PROPERTY OF					
P	ARAMI	eter		RESULT	······································	UNIT	E(QUIPMENT					
□Flow#1		Volume				Liter		Bottle					
1011		Time to fill				Sec							
		Flow depth				In	Т	ape measure					
□Flow #2	<u></u>	Flow width	<u> </u>	·		Ft, In	Т	аре теаѕиге					
] .		Measured length	ļ	33		Ft, In	Т	ape measure					
		Time of travel				S		Stop watch					
	Tempera					ok		hermometer					
	pH		-		p	H Units	Те	st strip/Probe					
	Ammo	onia				mg/L							

Outfall Reconnaissance Inventory Field Sheet

	1-3)	3 – Noticeable from a distance	☐ 3 — Clearly visible in outfall flow	☐ 3 — Opaque	13 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)														
	RELATIVE SEVERITY INDEX (1-3)	2 – Easily detected	☐ 2—Clearly visible in sample bottle	☐ 2 — Cloudy	☐ 2 — Some, indications of origin (e.g., possible suds or oil sheen)		COMMENTS		Operative and delete Company of the	a (1) d'Ambani de la card Comment de la fina (1) anno 10 anno 1			A PARTIES AND	f3) 🗌 Obvious				angestinalizast da qu'il equalettico del procurencia y di si simbolo del procurencia y	-
	REI	☐ 1 — Faint	1 – Faint colors in sample bottle	☐ 1 — Slight cloudiness	☐ 1 — Few/slight; origin not obvious	ion 6)								Suspect (one or more indicators with a severity of 3)				OBM 🔲 Caulk dam	
(If No, Skip to Section 5)	H.	ım/gas	☐ Yellow ☐ Other:			s (If No, Skip to Section 6)	DESCRIPTION	ipping	☐ Paint ☐ Other:		☐ Floatables ☐ Oil Sheen Algae ☐ Other:	☐ Green ☐ Other:		Suspect (one or more in				If Yes, type: 🗌 OI	
Š	DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	☐ Brown ☐ Gray ☐ Orange ☐ Red	See severity	et Paper, etc.) 🔲 Suds 1 sheen) 🔲 Other:	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?		Spalling, Cracking or Chipping Corrosion	Oily Flow Line	Excessive Inhibited	Odors Colors Col	☐ Brown ☐ Orange		nore indicators)		S C Vo	w Pool	ov.	1
r Flowing Outfalls of the flow?	y _w	Sewage 🗌 Sulfide	Clear Green		Sewage (Toilet Paper, etc.)	r Beth Flowing and	CHECK if Present						cterization	(presence of two or more indicators)	-	□ Yes	Flow	∏ Yes	
Indicators fo cators Present in	CHECK If Present					Indicators for	CHEC						Outfall Chara	Potential (lection	į.	om:	rap set?	
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!	Section 5: Physical Indicators for Both Flowing and Nor Are nhysical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	☑ Unlikely □	Section 7: Data Collection	1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?	

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

ection 1: Backs	groun	d Data	The state of the s		Por filosophical and a second			CONTROL OF THE PARTY OF THE PAR		
Subwatershed:	hehal	les River			Outfall ID: #/5	BSI				
Today's date:		3-11			Time (Military):					
Investigators:		ng cr.	·		Form completed by:	Springer				
Temperature (°F):	40)	Rainfa	ll (in.): Last 24 hours:	Last 48 hours:	d'				
Latitude: 46	058'9	16'N Long	gitude:	123°48'33W	GPS Unit:		GPS LMK #:			
Camera:					Photo #s:					
Land Use in Drains	ige Area	a (Check all that appl	y):							
☐ Industrial				•	Open Space					
Ultra-Urban Re	sidentia	al			☐ Institutional					
Suburban Resid	(ential				Other:					
☐ Commercial				·	Known Industries:					
Notes (e.g., origin	of outfa	nll, if known):								
, 5,		•								
Derrote de la constitue de la	en e	onnoverski de e e sames o biotis se dosenski de enage	oran edizarrandusus ar	THE RESERVE THE PROPERTY OF TH	on the last construction of the last construction and the last construction of the last construc	vecsi na somo videnti skir emiljo removo	THE RESIDENCE OF THE PROPERTY			
Section 2: Outf	MALE CONTRACTOR OF THE PARTY OF	Commission of the Commission of the Asset of the Commission of the	**************************************	esplanten A.	erent person Di Cherrent Di Michille Piller Chille Web II In the Michille Chiller Children Chiller Chiller Chiller Chiller Children Chiller Chiller Children Children Chiller Children C	***		a jadinga zajan inakan pika mananan akan bahasa zanga pakanan a		
LOCATION	NAMES OF TAXABLE PARTY.	MATERIA	OF WHICH SHAPE OF STREET	SH	APE	DIMENSIC	ons (In.)	SUBMERGED		
		RCP	CMP	☐ Circular	Single	Diameter/Dimen	sions:	In Water:		
		□ PVC □	HDPE	☐ Eliptical	☐ Double	10"		Partially Fully		
Closed Pipe		Steel		Вох	☐ Triple					
		Other:		☐ Other:	☐ Other:			With Sediment:		
TOTALLES TO WINDOWS COLUMN AND SECOND WERE ARRESTED AND LONG TO PROVIDE ARREST AND SECOND AND ARREST								☐ Partially ☐ Fully		
Concrete				en jameistelijaanskooriken (Lathijaanst ay) valaatel (Asista alassii jaanskoorija), pissi	A SECTION OF THE PROPERTY OF T		THE WATER PARTY OF THE PARTY.			
Earthen				Trapezoid	Depth:					
Open drainage	:	rip-rap		☐ Parabolic		Top Width:				
		Other:		Other:		Bottom Width:				
☐ In-Stream	aritumpiacus es	(applicable when c	alla etta e	o o maniformi	T TRANSPORTER TO THE THE PROPERTY WITH THE SECURITY OF THE PROPERTY OF THE PROPERTY AND THE PROPERTY AND THE P	man a commence with the commence of				
Flow Present?	ALMONTO AVIOLEN	Appricante when	No 🖳 No	NAME OF TAXABLE PARTY OF TAXABLE PARTY.	de la Suallan C	ny firanjaya yayan katana katana a u u katana da k	N THE PART OF THE THE PART OF THE PART			
Flow Description	CONTRACTOR TO THE	A STATE OF THE PARTY OF THE PAR	LT 140	THE RESERVE OF THE PROPERTY AND ADDRESS OF THE PROPERTY OF THE	ip to Section 5			nero de caración e e com se constitu tor de la companya de la companya de la companya de la companya de la comp		
(If present)		Trickle	Moderat	e Substantial						
Section 2. One	ntitat	ive Characteriza	tion	A S A S A S A S A S A S A S A S A S A S	in the contractions of the state of the stat	CONTROL CONTROL STATE OF THE PARTY OF THE PA	ind marchine and a party deci	es pel de la communicación de l'especial de l'especial de l'especial de l'especial de l'especial de l'especial de		
Section 3; Qua	HULAL	TYO CHAIACLES IZA		FIFI D DATA FOR F	LOWING OUTFALL	uana que fre est est est est est est est est est es	of a Patricia by Manuscope Assessment States	Mit diskopling gegenstyres for to stay on both young district a sitter described by a symmetry		
P	ARAMI	ETER	Т	RESULT	LOWALIG COTT FILE.	UNIT	F	OHTDMENT		
	W 22. 1	Volume	-	1 1 2 2 2 2 2		Liter		EQUIPMENT Bottle		
□Flow#1		Time to fill	 			Sec				
		Flow depth	-			In	Т	`ape measure		
□Flow #2		Flow width		, ,,		Ft, In		ape measure		
LIT IOW IIA		Measured length		2 21		Ft, In	T	ape measure		
		Time of travel				S		Stop watch		
,	Temper	ature				°F Thermometer				
	pН					oH Units	Test strip/Probe			
	Ammo	onia				mg/L	Test strip			

Illicit Discharge Defection and Elimination: Technical Appendices

Section Are D	on 5: Physical Indichysical indicators the	sators for Both Flowing at are not related to flow t	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?
	INDICATOR	CHECK if Present	ESCR
	Outfall Damage	Andrews Commission of the Comm	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion
	Deposits/Stains		□ Oily □ Flow Line □ Paint □ Other:
Ab	Abnormal Vegetation		☐ Excessive ☐ Inhibited
- Lit	Poor pool quality		☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:
Į.	Pipe benthic growth		□ Brown □ Orange □ Green □ Other.
Section	Section 6: Overall Outfall Characterization	II Characterization	
	✓ Unlikely □ Po	Potential (presence of two or more indicators)	or more indicators) $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
Section	Section 7: Data Collection	Ĭ	
1. S	Sample for the lab?		Tyes Takio
2. If	If yes, collected from:		Flow Pool
3. In	Intermittent flow trap set?		☐ Yes ☐ No If Yes, type: ☐ OBM ☐ Caulk dam
Fernancia District	Commence of the control of the contr		

(e.g., obvious oil sheen, suds, or floating sanitary materials)

of origin (e.g., possible suds or oil sheen)

 \square 1 – Few/slight; origin not obvious

Other:

□ Suds

Sewage (Toilet Paper, etc.)

Petroleum (oil sheen)

Floatables -Does Not Include Trash!!

☐ 2 — Some; indications

☐ 2 — Cloudy

☐ 1 — Slight cloudiness

See severity

3 - Some; origin clear

☐ 3 — Opaque

☐ 3 — Noticeable from a

2 - Easily detected

□ 1 – Faint

Rancid/sour Petroleum/gas

Sewage Sulfide

Odor

DESCRIPTION

RELATIVE SEVERITY INDEX (1-3)

Outfall Reconnaissance Inventory Field Sheet

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfails Only Are Any Physical Indicators Present in the flow?

CHECK IF

INDICATOR

☐ 3 — Clearly visible in outfall flow

2 – Clearly visible in sample bottle

1 – Faint colors in sample bottle

☐ Yellow ☐Other:

☐ Gray

☐ Brown ☐ Orange

Other:

☐ Red

Clear Green

Color

Turbidity

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Back	groui	nd Data	Occiniaration of					
Subwatershed:	Che	halis River			Outfall ID: #	16 Chicago	St.	and have the second and a second
Today's date:		2-8-11			Time (Military):	16 Chicago 0910		
Investigators:		inger			Form completed by	Springer	,	
Temperature (°F):	40	Ď	Rainfa	nll (in.): Last 24 hours:	Last 48 hours:	9		
Latitude: 46	°58'	54'N Longit	ude:	1230 48' 22'41	GPS Unit:		GPS LMK #:	
Camera:					Photo #s;			
Land Use in Drain	age Are	a (Check all that apply)	:					
☐ Industrial				,	Open Space			
Ultra-Urban R	esidenti	al			Institutional			
Suburban Resi	dential				Other:			
☐ Commercial					Known Industries:			
Notes (e.g., origin	of oulf	all, if known):				······································		
	*******	emercenia eras de la como de la libera de la como esta esta esta esta esta esta esta esta					Arra en manero, sportal arbamatos, persona sa	in a produce of the state of th
Section 2: Outi	EAST-TOWNSHIP	SAN THE RESIDENCE AND ASSESSMENT OF THE PROPERTY OF THE PROPER	des processos			entra printeriora securitario de la companio de la	and the second second second second second	and the natural of progression and another supplies of the supplies and the supplies are supplies and the supplies and the supplies are supplies and the supplies and the supplies are supplies are supplies and the supplies are supplies are supplies and the supplies are supplies
LOCATION	A.	MATERIAL	Sindalula burana	A STATE OF THE PROPERTY OF THE	APE	DIMENSIO	ons (In.)	SUBMERGED
		□ RCP □ C		[L] Circular	Single	Diameter/Dimen	sions:	In Water:
		□ PVC □ H	DPE	☐ Eliptical	☐ Double	8,,		Partially I'ully
Closed Pipe		Steel		Вох	Triple			With Sediment:
		Other:	-	Other:	☐ Other:			□No
TITZII WARTUUR KUUT YAAAN SAYSIII TAA KA K								☐ Partially ☐ Fully
Concrete				Company of the contract of the	El Jarressanti Caryolograpi (1 to a suspension proprieta a voca d	Adaption of Manhallon and Machinery (May 1997) and the Representation of the Representat	TESOCONOLONICA (MICHAELINICANICALIA)	
		☐ Earthen		Trapezoid		Depth:		
Open drainage	c	rip-rap		Parabolic Parabolic		Top Width:		
		☐ Other:		Other:		Bottom Width: _		
In-Stream	CK-TA-FOT-MOTE	(applicable when col	lecting	samples)	t y European (new transposant program, police a standard play y European (standard play in producer	anno de la composition della c	and the second s	
Flow Present?	-	CONTRACTOR OF THE PROPERTY OF THE PARTY OF T	[JNo	POPULATION SCHOOL SELECTION STATES OF THE SELECTION SERVICE SE	ip to Section 5	nak istanggan panggan atau tanggan panggan s	PROFILE PROFIL	TO A STATE OF THE PARTY OF THE
Flow Description	W PER PER SANGER VANDOR	e en alemperat, entre alemperatura de la enfrantación de primera entre caba	Ioderat		A. Commission of the substitution of the subst	oktorno na spirate na kraje na prima provinci del		entenderentende errenspararitäre, tild pielet in für zuf enderstigeningsbig subjectig
(If present)	E SHOWER PROPERTY.	1110K(V 11	TOUGIAL	e Fi prostautiai	arrinorm kongresindon grandelen gong kusharman kilologi kungan	and the statement acceptable to special deposition of the principal section of the special deposition of the special depos	NOTICE OF THE PARTY OF THE PART	антам опсинатиру жүний күрү бүрү бүрү бүрү бүрү бүрү бүрү бүрү
Section 3; Qua	ntitat	ive Characterizati	on					
		A 2-2-2-4 (Al 14) had become colden and mark topic (Al) had become	·	FIELD DATA FOR F	LOWING OUTFALL	, <u></u>	Караттар запосаванско инсе дуацу	akti shi ngin rika an man inga kasa ma nda an tanas 1224 da 940 a n akti
P	ARAMI	eter		RESULT		UNIT	E	QUIPMENT
□Flow#1		Volume				Liter		Bottle
		Time to fill				Sec	···	
		Flow depth				In	Γ	ape measure
□Flow #2		Flow width		, ,,		Ft, In	Γ	ape measure
		Measured length		35		Ft, In	7	ape measure
		Time of travel		4		S		Stop watch
,	Tempera					ok.		Chermometer
	pH					pH Units Test strip/Probe		
	Ammo	nia				mg/L ·		Test strip

Illicit Discharae Detection and Elimination: Technical Appendices

(e.g., obvious oil sheen, suds, or floating sanitary materials) ☐ 3 — Noticeable from a distance 3 - Some; origin clear ☐ 3 — Clearly visible in outfall flow ☐ 3 — Opaque RELATIVE SEVERITY INDEX (1-3) COMMENTS of origin (e.g., possible suds or oil sheen) Obvious \square 2 – Clearly visible in sample bottle ☐ 2 — Some; indications 2 - Easily detected ☐ 2 - Cloudy Suspect (one or more indicators with a severity of 3) Caulk dam ☐ 1 — Few/slight; origin not obvious ☐ 1 — Slight cloudiness ☐ 1 — Faint colors in sample bottle □ 1 – Faint (If No, Skip to Section 6) OBM Oil Sheen Peeling Paint Other: If Yes, type: Other: (If No, Skip to Section 5) DESCRIPTION ☐ Colors ☐ Floatables ☐ Excessive Algae ☐ Yellow Green Spalling, Cracking or Chipping Corrosion Rancid/sour Petroleum/gas ☐ Paint Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? DESCRIPTION See severity □ Other: Inhibited ☐ Gray Suds Orange ☐ Red ☐ Pool SN E No. ☐ Flow Line Potential (presence of two or more indicators) Sewage (Toilet Paper, etc.) ☐ Excessive Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? ☐ Orange Other: ☐ Brown Petroleum (oil sheen) Odors ☐ Brown Are physical indicators that are not related to flow present? ☐ Flow ☐ Yes Sewage Sulfide Green ☐ Clear CHECK if Present Section 6: Overall Outfall Characterization CHECK if Present Section 7: Data Collection Intermittent flow trap set? If yes, collected from: Sample for the lab? Abnormal Vegetation Pipe benthic growth Floatables -Does Not Include Trash!! Poor pool quality Outfall Damage INDICATOR Deposits/Stains INDICATOR 区 Unlikely Turbidity Color Odor

Outfall Reconnaissance Inventory Field Sheet

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Back	HALL COURSESSED IN	THE CONTRACTOR OF THE PARTY OF	-	and house to be the management and become an advantage	OF PERSONAL PROPERTY OF THE PERSON OF THE PE	Lightyyytyysissaanot eranteis kiityaanista liiteksiniysissaanista alkeytaanista kan kalla kalla kalla kiityis	
Subwatershed:	Che	ehalis Rive			Outfall ID: #	7 Stanford ST.	The state of the s
					Time (Military):	0915	
Investigators:	Spri	inger	·		Form completed by:		
Temperature (°F):	: 4	Ю		all (in.): Last 24 hours:	Dast 48 hours:	Ø	
	<u>58'5</u>	フ'N Lon	gitude:	123° 48' 18' W	GPS Unit:	GPS LMK #	l:
Camera: NA					Photo #s:		
	nage Are	ea (Check all that app	y):		5		
☐ Industrial					Open Space		
Ultra-Urban R	esidenti:	al			Institutional		
Suburban Resi	idential			-	Other:		
Commercial					Known Industries: _		
Notes (e.g., origin	of outfi	all, if known):			•		
				OHOMBONEM SOUTH ON MENDAL HEROLOGY CHARLES OF THE SECURITY OF	On this individual Company of the Co	en de la transmission (40° accele cièncie del Cardella (40° accele comment (40° accele comment	High taylor are at the work are and affect the recommendation of the state of the s
Section 2: Out	- NAGADING TOPOT	escription MATERIA		AND THE REAL PROPERTY OF THE P			SE NOTES AND STATEMENT OF SECURITY OF SECU
LOCATION	ingeneral services.	***************************************	MANAGER LANGE	THE RESERVE THE PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT OF THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN C	APE	DIMENSIONS (IN.)	SUBMERGED
1		}	CMP	Circular	Single	Diameter/Dimensions:	In Water:
/			HDPE	Eliptical	Double	10	Partially Fully
Closed Pipe		Steel		□ Вох	Triple		With Sediment:
		Other:	_	Other:	Other:		□No
#77566 X COTCO TOWN THE ALCO SECURE OF THE ALCO SEC							☐ Partially ☐ Fully
		Concrete		[Tunnanaid	AMP PROPERTY OF THE PROPERTY O		
El O Andrew		☐ Earthen		Trapezoid		Depth:	
☐ Open drainag	e	Tip-rap		☐ Parabolic		Top Width:	
		Other:		Other:		Bottom Width:	
[] In-Stream	EMGLES HARDER	(applicable when o	ollecting	samples)	rich Michigan (m. 1900) ann an Aireann an Aireann ann an Aireann an Aireann an Aireann ann an Aireann ann an A		- Salah Sala
Flow Present?	· CENTRAL PROPERTY OF THE PROP	Yes	[]No	NATIONAL PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PARTY OF THE	ip to Section 5		AMARAH PARANCE THE EXPLORATE EXPLORATION THAT THAT IS BELLEVING DAY WHEN
Flow Description (If present)		☐ Trickle ☐	Moderat		A CONTRACTOR OF THE PROPERTY O	opora waterstaoroppe, aquatik toʻshgʻabi ma. 6004-000, ilibersiy asimbosa ampiriyali gifaliyas	EACHGAIGE COM ET HIS SHOWN ON THE ALXIOC ENTERT (BLOCH PROVING AND EX
Section 3: Oua	ntitat	ive Characteriza	ition		The second section desired by a second secon	· · · · · · · · · · · · · · · · · · ·	经股份债金 (1965-1967) 1993 1993 1993 1993 1993 1993 1993 1993 1993 1993 1993 1993 1993
The second secon	CALLED TO SECOND	ersiammipmess or provenies to tarantee say	-	FIELD DATA FOR F	LOWING OUTFALLS	ande govern plant i stratus protesta color intervientes seculos seculos seculos de la color de color de color L	
Р	ARAMI	ETER	1	RESULT			QUIPMENT
□Flow#1		Volume				Liter	Bottle
FIT ION H.		Time to fill				Sec	
		Flow depth				In	Tape measure
□Flow #2		Flow width		, ,,		Ft, In	Tape measure
	11	Measured length		3 31		Ft, In	Tape measure
		Time of travel				S	Stop watch
	Tempera		_			°F.	Thermometer
	pH				p	H Units T	est strip/Probe
	Ammo	mia				mg/L	Test strip

Illicit Discharge Defection and Elimination: Technical Appendices

Section 7: Data Collection		***************************************	estatement des estatements de la company	
1. Sample for the lab?	☐ Yes	E No		
 If yes, collected from: 	Flow	∏ Fool		
3. Intermittent flow trap set?	∏ Yes	oN 🗹	If Yes, type: OBM Caulk dam	

Obvious

Suspect (one or more indicators with a severity of 3)

Potential (presence of two or more indicators)

Section 6: Overall Outfall Characterization

Unlikely

Z

Oil Sheen Other:

Colors | Floatables | Excessive Algae

Odors

Other:

Green

Orange

☐ Brown

Pipe benthic growth

Poor pool quality

(e.g., obvious oil sheen, suds, or floating sanitary materials)

of origin (e.g., possible suds or oil sheen)

☐ 1 – Few/slight; origin not obvious

Other:

Suds

Sewage (Toilet Paper, etc.)

Petroleum (oil sheen)

-Does Not Include Trash!!

Floatables Turbidity

COMMENTS

(If No, Skip to Section 6)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present?

CHECK if Present

INDICATOR

DESCRIPTION

Peeling Paint

Spalling, Cracking or Chipping Corrosion

Outfall Damage

Other:

Paint

Tlow Line

\text{\logintary}

| Inhibited

☐ Excessive

Abnormal Vegetation

Deposits/Stains

3 - Some; origin clear

2 – Some; indications

2 - Cloudy

☐ 1 — Slight cloudiness

See severity

3 - Opaque

☐ 3 – Noticeable from a

☐ 2 - Easily detected

☐ 1 — Faint

☐ Rancid/sour ☐ Petroleum/gas

Sewage Sulfide

Odor

DESCRIPTION

RELATIVE SEVERITY INDEX (1-3)

Outfall Reconnaissance Inventory Field Sheet

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

Yes
No

CHECK if Present

INDICATOR

☐ 3 — Clearly visible in outfall flow

2 – Clearly visible in sample bottle

1 – Faint colors in sample bottle

☐ Yellow Other

☐ Gray

☐ Brown □ Other:

☐ Red

☐ Orange

Creen ☐ Clear

Color

Section 1: Bac	NAME OF TAXABLE PARTY.	CONTRACTOR SERVICE CONTRACTOR OF THE SERVICE	- del micro de servicio de la companya de la compa							
Subwatershed:	Cheho	alis Rive	er		Outfall ID: #	718 Activ	5+	And the second second second second second second second		
Today's date:	12-	1			Time (Military):			_		
Investigators:	Spri	nger			Form completed b					
Temperature (°F	i): 40)	Rainfa	all (in.): Last 24 hours:	D Last 48 hours	: d				
Latitude: 46°	59'5'A	<u>ノ </u>	Longitude: /	123°48′32′W	GPS Unit:		GPS LMK #:			
Camera: V					Photo #s:		I			
Land Use in Drai	inage Area (Check all that	apply):		15	**· · · · · · · · · · · · · · · · · · ·				
☐ Industrial				,	Open Space					
Ultra-Urban l	Residential				Institutional					
Suburban Re	sidential				Other:					
☐ Commercial										
Notes (e.g., origi	in of outfall,	if known):			ZHOWN HIGGIGUES,					
İ		•								
CONTRACTOR OF THE PROPERTY OF	WAYNE STREET	EMERICAN USES PROPERTY AND	and the second section of the second section s	Charles (All Control of the Control	AN MEDICAL CONTRACTOR CONTRACTOR OF THE PROPERTY AND AN ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE		THE SHEET STREET, SHEET STREET, SHEET, SHEET	THOUGHT IN THE PART T		
Section 2: Out	THE RESIDENCE AND PARTY AN	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE OW	Mar Dipoles 1775 and Capping Constituted	engales som Artikassa som occupanteljalistyr (plik Artikologika polikologika polikologika polikologika polikol	The state of the s					
LOCATIO	DESCRIPTION PROPERTY AND PROPERTY.	MATER	SALL SALL SALL SALL SALL SALL SALL SALL	A SHARE MANAGEMENT OF A SHARE MANAGEMENT OF THE PARTY OF	АРЕ	DIMENSIO	ONS (IN.)	SUBMERGED		
	1		☐ CMP	[Circular	☐ Single	Diameter/Dimen		In Water:		
] PVC	HDPE	☐ Eliptical	☐ Double	(2) 18"	(1) 24"	☐ No ☐ Partially		
Closed Pipe	[2	₹Steel		□ Вох	☑ Triple			1 Tully		
		Other:		☐ Other:	☐ Other:			With Sediment:		
POTONETS IN THE TOTAL MENTS OF THE POTONE AND THE P							Partially Fully			
рубатив покупрости по под тобани у детринующего то		Concrete	ACCIONATION SPECIMENTS AND ACCIONATION OF	pe laterial de la completation d		Carlot de la carlo	TO STATE OF THE PERSON OF THE	[] Fully		
_] Earthen		☐ Trapezoid		Depth:				
Open drainag	ge] rip-rap		Parabolic Parabolic		Top Width:				
	1] Other:		☐ Other:		Bottom Width: _				
In-Stream	HERMANISM MARKET RESERVED	pplicable whe	OR RESIDENCE PROPERTY STATES	ментерина под применти под от применти на применти на применти на применти на применти на применти на применти	demaka kanganga paganga pagangan pagangan pagangan pagangan pagangan pagangan pagangan pagangan pagangan pagan	eparameter de partie contrador por de frecient est establishe en	and the construction of t			
Flow Present?	Consideration of the last of t	J Aes	en conecting :	NAMES AND ADDRESS OF THE PARTY			Wyconskia kianna kinnakantok	Distribution of the contract		
Flow Description	THE PERSON NAMED OF THE PE		THE COURT PROPERTY OF THE PARTY.	The second secon	p to Section 5	THE PROPERTY OF THE PROPERTY O	M. TOTAL TO MAIN COMMISSION OF THE PARTY OF	AMERICAN INCOMES AND STREET AND S		
(If present)	' L	Trickle	Moderate	Substantial						
Section 3: Qua	antitative	Character	dzation	TO THE RESIDENCE AND THE TRANSPORT OF THE PROPERTY OF THE PROP	THE CALL OF A MANAGEMENT OF THE CALL OF TH	PROPERTY OF THE PROPERTY SHEET AND THE PROPERTY OF THE PROPERT	Charles of the Control of the Contro	#2-manuscript open report and produce to business of the second of the second open report of the		
THE PARTY OF THE P	and the second of the second	THE RESERVE AND ADDRESS OF THE PERSONS	MATERIAL PROPERTY.	FIELD DATA FOR FI	OMING OLIVEALA	desirente de la companya de la comp	C Marie C Laboratoria de Laboratoria (1971)	z ir yranicia saparamuz al sepatanėja zuromininių piezeris cirkus ir erastos iksainamoja (cir		
P	PARAMETE	!R	T	RESULT	TOWART COLLARS.	UNIT		1 1 7 F 1 R S F 1 1 1 1 1 1		
□Flow#I		Volume				Liter		OUIPMENT Bottle		
1_11 IOW #1	T.	ime to fill				Sec	~ ~~	Donto		
	F	low depth				In	Та	pe measure		
□Flow #2	F	low width		2 >>		Ft, In		ape measure		
•	Mea	sured length) 31		Ft, In		pe measure		
	Tin	ne of travel				S		Stop watch		
	Temperature	3				oF.	Tŀ	nermometer		
	pI·I				,	pH Units	Tes	Test strip/Probe		
	Ammonia					mg/L	Test strip			
THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	CONTRACTOR OF STREET	COLD MANAGEMENT STREET	an an annual feature and the second	COLUMN TO THE POST OF THE PROPERTY OF THE PROP		mg/L Test str				

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	icators for Filo s Present in the f	wing Cutfall flow? Yes	s Cary	(If No,	(f No, Skip to Section 5)			
INDICATOR	CHECK IF Present			DESCRIPTION		REL	RELATIVE SEVERITY INDEX (1-3)	1-3)
Odor		Sewage	☐ Rancid/se	Rancid/sour Petroleum/gas	n/gas	☐ 1 — Faint	2 – Easily detected	☐ 3 — Noticeable from a distance
Color		Clear	Brown	Gray	Yellow	1 – Faint colors in sample bottle	\square 2—Clearly visible in sample bottle	
	[Green	Orange	See periority	Louisi.	1 - Slight cloudiness	□2-Cloudy	☐ 3 — Opaque
Turbidity				See sevelary			7 2 – Some: indications	3 - Some; origin clear
Floatables -Does Not Include Trash!	□	☐ Sewage (Toilet Paper ☐ Petroleum (oil sheen)	☐ Sewage (Toilet Paper, etc.) ☐ Petroleum (oil sheen)	.) Suds		☐ 1 — Few/slight, origin not obvious	of origin (e.g., possible suds or oil sheen)	(e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls	icators for Bel	th Flowing a	nd Non-Flo	wing Outfalls	S (H. No. Slin to Section 6)	rion 6)		
Are physical indicators that are not related to flow present:	that are not rela	ated to rlow p	resent		PESCRI		COMMENTS	ι»
INDICATOR	CHECK IT PRESENT	Present			A	COM.		
Outfall Damage			Spalling, C	, Cracking or Chipping n	pping 🔲 Peeling Paint	11		
Deposits/Stains			□ oily □	Flow Line	☐ Paint ☐ Other:			
Abnormal Vegetation			☐ Excessive	[] Inhibited				
Poor pool quality			☐ Odors ☐ Suds	Colors Cocessive Algae	☐ Floatables ☐ Oil Sheen Algae ☐ Other:	ប	The second of th	
Pipe benthic growth			☐ Brown	Orange	Green Other:		The state of the s	
Soction 6: Oversil Outfall Characterization	fall Character	ization						
Unlikely	Potential (presence of two or more indicators)	ence of two (or more indic	xators)	Suspect (one or more i	Suspect (one or more indicators with a severity of 3)	of 3)	
Section 7: Data Collection	tion							
1. Sample for the lab?			□ Yes	[J.No				
2. If yes, collected from:			☐ Flow	☐ Pool	\ \			
3. Intermittent flow trap set?	set?		□ Yes	ON D	If Yes, type:	OBM Caulk dam		THE CHARLES AND THE PROPERTY OF THE PROPERTY O
CONTRACTOR DESCRIPTION OF THE PROPERTY OF THE								

Decuon 1: Back	CCTION 1: BACKGPOUNG DATA									
Subwatershed: (Cheh	alis River			Outfall ID): #19	5 TH AU	e	The state of the s	
Today's date:	12-8	3-11			Time (Mi	litary):	0915			
Investigators:	Spri	nger			Form con	pleted by:	Springer			
Temperature (°F):	40		Rainfa	ll (in.): Last 24 hours:	Ø Last	48 hours:	ø			
Latitude: 46	59'18	Eon Lon	gitude: /	23° 48′ 47′N	GPS Unit	:		GPS LMK #:		
Camera: NA					Photo #s:			!		
Land Use in Drain	age Are	a (Check all that appl	y):							
☐ Industrial					☐ Open	Space			!	
Ultra-Urban Ro	esidentia	al			☐ Institu	itional				
Suburban Resi	dential				Other:			,		
Commercial					Known I	ndustries;				
Notes (e.g., origin	of outfa	ıll, if known):				,				
				•						
Section 2: Outf	Pall Da	agrintion	SPORTER SLOWERS AND ADDRESS.	THE THE CONTRACT OF THE CONTRACT OF THE PROPERTY OF THE CONTRACT OF THE CONTRA				CONTRACTOR OF CASE OF	and the state of t	
LOCATION	CHECKER STREET	MATERIA	and the contract of the contra	SH	APF	Harriston or province Advanced	DIMENSI	NE ATN Y	SUBMERGED	
ATT STREET, N. STATES AND A SHOP ASSESSMENT AND ASSESSMENT ASSESSMENT AND ASSESSMENT ASSESS	Marine Holymania	CONTRACTOR CONTRACTOR OF THE PARTY OF THE PA	CMP	Circular	Single	nt som til filmgannin	Diameter/Dimer	PHONON CONTRACTOR CONTRACTOR	In Water:	
			HDPE	☐ Eliptical	Double		36"	iotorio,	□ No □ Partially	
Closed Pipe		Steel		Вох	Triple				Fully	
in oronour The		Other:		Other:					With Sediment:	
		Cilor,				er:			☐ No ☐ Partially	
[] Concrete		or the September of the	MCT-MEDIC AND		CONTRACTOR COMMENTED IN THE PROPERTY AND ADMINISTRATION OF THE PROPERTY OF THE			Fully		
Concrete				☐ Trapezoid	Depth:					
Open drainage	e	Earthen		Parabolic			Top Width:			
		rip-rap		Other:			Bottom Width:			
kariter za nobustokrak piecitantyy soboko syys probokota	Marketon Marketon Co.	Other:	Name of the Park o	NOTE THE SECURITY OF THE SECUR	ŻYCZ	Part Section & Smiles of Angel Sector				
In-Stream	COMPANIE AND SERVICE S	(applicable when c	ollecting	samples)						
Flow Present?		Yes	I No	If No, Ski	p to Section .	S AMATA TEM SIN THE SECTION	THE REST AND THE PARTY COUNTY TO THE PARTY COUNTY OF THE PARTY COU		BOSO CONTROL I I NE PROSETTA NER S SCHOOL SE L'AU PROSETTA DESERVATION DE L'AU	
Flow Description (If present)	E-Quipte College	Trickle	Moderat	Bubstantial	nad istrial () Dysklik konkráti oberczy		rpekithig poczyczykowyczy sowiece kięk któle posjeczy	EPAL POLITY 100ED pro June 1 and 1		
Section 3: Qua	ntitati	ive Characteriza	tion							
				field data for f	LOWING O	UTFALLS	A grantes of the first security and a state of the securit	of the second	M Defende when the second of the process of the process of the second of	
P	ARAME	eter		RESULT		l	NIL	E	QUIPMENT.	
□Flow#1		Volume					Liter		Bottle	
		Time to fill					Sec			
		Flow depth					In	Т	ape measure	
□Flow#2	<u></u>	Flow width	-	, , ,			Ft, In	Т	ape measure	
		Measured length		, ,,			Ft, In	Т	ape measure	
		Time of travel	-				S		Stop watch	
	Tempera						°F		hermometer	
	pH		-			pH Units		Те	st strip/Probe	
	Ammo	nia				:	mg/L Test strip			

Illioit Discharae Defection and Elimination: Technical Appendices

Outfall Reconnaissance Inventory Field Sheet

Nowing Outfalls Only (If No, Skip to Section 5) (If No (If No Skip to Section 5)	DESCR	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ 1 - Faint ☐ 2 - Easily detected ☐ 3 - Noticeable from a distance ☐ Sulfide ☐ Other:	□ Clear □ Brown □ Gray □ Yellow □ 1 - Faint colors in sample bottle □ 2 - Clearly visible in outfall flow □ Green □ Orange □ Red □ Orther: sample bottle outfall flow	See severity \square 1 – Slight cloudiness \square 2 – Cloudy \square 3 – Opaque	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ 1 - Few/slight; origin field: of origin (e.g., obvious oil sheen) ☐ Other: ☐ ☐ Other: ☐ ☐ Other: ☐ ☐ Other:	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?		☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	☐ ○ Oily ☐ Flow Line ☐ Paint ☐ Other:	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:] ☐ Brown ☐ Orange ☐ Green ☐ Other:	rization	Potential (presence of two or more indicators) Suspect (one or more indicators with a severity of 3)		□ Yes	☐ Flow ☐ Pool	
	DESCR	☐ Rancid/sour ☐ Other:	☐ Brown ☐ Orange	See severity	, efc.)	th Flowing and Non-Flowing Outfalls ted to flow present?			Oily Thow Line		Odors Suds	☐ Brown	zation	two or more indicators)	OPPONING CONTRACTOR CO			
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	INDICATOR Present	Odor	Color	Turbidity	Floatables -Does Not Include Tresh!	Section 5: Physical Indicators for Both Flowing and Noi Are physical indicators that are not related to flow present?	INDICATOR CHECK IF	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	Unlikely 🔲 Potential (pres	Section 7: Data Collection	Sample for the lab?	If yes, collected from:	

Section 1: Back	groun	id Data	AND COLUMN TO SAFERY OF					
Subwatershed:	Chel	hals River			Outfall ID: #2	0 6th A	fue.	
Today's date:	12	-8-//			Time (Military):			
Investigators:	Sprin	que			Form completed by	Springer		
Temperature (°F):	4	10		all (in.): Last 24 hours:	A Last 48 hours:	d		
Latitude: 46°	590	20'N Longi	tude:	123°48' 47'W	GPS Unit:		GPS LMK #:	
Camera:					Photo #s:			
Land Use in Drain	age Are	ea (Check all that apply):					
☐ Industrial				•	Open Space			
☐ Ultra-Urban Ro		al			Institutional			
Suburban Resid	dential				Other;			
Commercial					Known Industries:			
Notes (e.g., origin	of outfa	all, if known):						
Annual Control of the	· · · · · · · · · · · · · · · · · · ·	AND THE PROPERTY OF THE PROPER						!
Section 2: Outf	fall De	ecrintion	(CONTROL CONT	amenamenti proporcia den estalganesa 1963 i di custa yumanan a mandalada 1964 i 1984 ann	National Control of the Control of the State		District Harrist (Politikas) in die Herricht (Poli	क्षेत्रकार वास्त्रकार विश्वविद्याणिक स्थापन स्थ स्थापन
LOCATION	·	MATERIAL	ERM CAPITAL SA	SH	JbE	DIMENSI	ONS (IN.)	SUBMERGED
AND PROCESSES AS A CONTROL OF THE PR	Marine de Sancioles	□ RCP □ C	MP	[] Circular	Single	Diameter/Dimer	AND DESCRIPTION OF THE PARTY OF	In Water:
		□PVC □E	IDPE	☐ Eliptical	Double	12"		☐ No ☐ Partially
L Closed Pipe		Steel		☐ Вох	Triple			- Fully
,		Other:		☐ Other:	Other:			With Sediment:
			-		LI Othor.			Partially Fully
	-	Concrete	MINISTER BOSICAL	en de statel de la completation		digital di Africano est essenti i sui menormanistri izmente	Carron and the Carro	[] Funy
		 Barthen		☐ Trapezoid		Depth:		
☐ Open drainage	e	☐ rip-rap		Parabolic		Top Width:		
				Other:		Bottom Width:	···	
∏ In-Stream	EKSAPAN ESA SA	Other:(applicable when col	**************************************	The second secon	a politica i met met propositi et de l'estato de l'estato de l'estato de l'estato de l'estato de l'estato de l	mana del discono composer de carpat Machady a Arietta qua da	Carlower was a reserve part of the second	
Flow Present?		Yes	llecting No	NAMES OF THE PARTY	ANNERSON STATE OF THE STATE OF	ar terresparation and security	artiskovični programa	SAMMada sa and drysch Linda (Austria) Wick Valleting story process and a constraint of the
Flow Description	organizació de vivendo	we will be a surface to be a surface to the surface of the surface	North Control of the		p to Section 5	en sentida de la compania del la compania de la compania de la compania del la compania de la compania de la compan	Control Control Market 14 Decrees	
(If present)	n quega com un re ^{co} lect	Trickle \(\)	Moderate	e Substantial	The second secon			
Section 3: Qua	ntitati	ive Characterizat	ion			THE PERSON NAMED IN COLUMN TO SERVICE OF THE PERSON NAMED IN COLUMN TO SERVICE	The state of the s	ACCOUNT OF MANY OF THE PARTY OF
	MARCHET SON	Partie Company of the	ferysinkeljusiyasi sisasyayya	FIELD DATA FOR F	LOWING OUTFALL	parategy by propriate and an experience and an experience		to to work the mean common to the experience and experience to the experience of the
P/	ARAMI	eter		RESULT		UNIT	EC	QUIPMENT
□Flow#1		Volume				Liter		Bottle
,		Time to fill				Sec		,
		Flow depth				In	Ti	ape measure
□Flow #2		Flow width		, ,,		Ft, In	Ta	ape measure
	1	Measured length		, ,,		Ft, In	Ti	ape measure
		Time of travel	ļ			S		Stop watch
7	Tempera		ļ			oF	Т	hermometer
	pН		ļ			oH Units	Te	st strip/Probe
	Ammo	nia				mg/L		Test strip

Illicit Discharge Detection and Elimination: Technical Appendices

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	licators for Flors.	owing Outfalls flow? \square Yes	Is Only	(<u>I</u> FNo, S	(Jf No, Skip to Section 5)			
INDICATOR	CHECK if Present		lod.	DESCRIPTION		REI	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage Sulfide	☐ Rancid/sour ☐ Other:	our 🗌 Petroleum/gas	√gas	🗌 1 – Faint	2 – Easily detected	3 – Noticeable from a distance
Color		Clear	Brown	Gray	☐ Yellow ☐Other:	1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 — Clearly visible in outfall flow
Turbidity				See severity		☐ 1 — Slight cloudiness	☐ 2 — Cloudy	☐ 3 — Opaque
Floatables -Does Not Include Trash!!		Sewage (Tollet Paper	Sewage (Toilet Paper, etc.)	Suds		☐ 1 – Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls 4 re nhwical indicators that are not related to flow present?	licators for Bo	th Flowing as	nd Non-Flow	ving Outfalls Yes 7No	(If No, Skip to Section 6)	tion 6)		
INDICATOR	CHECK If Present	Present			DESCRIPTION		COMMENTS	S
Outřall Damage			Spalling (Spalling, Cracking or Chipping Corrosion	ping 🔲 Peeling Paint	4-4		
Deposits/Stains			□ Oily □	☐ Flow Line ☐ P	Paint 🔲 Other:			
Abnormal Vegetation			☐ Excessive	Inhibited				
Poor pool quality			Odors Suds	☐ Colors ☐ Excessive Algae	☐ Floatables ☐ Oil Sheen Igae ☐ Other:	ט		
Pipe benthic growth			☐ Brown	☐ Orange	☐, Green ☐ Other:		e de la company de la comp	
Section 6: Overall Outfall Characterization	fall Characteri	ization				OROZIA I POR		
I Unlikely	Potential (presence of two or more indicators)	ence of two o	r more indica	utors)	Suspect (one or more ir	Suspect (one or more indicators with a severity of 3)	of3)	
Section 7: Data Collection	tion							
1. Sample for the lab?	MATERIAL DISTRICT		□ Yes					
2. If yes, collected from:			∏ Flow	☐ Pool				
3. Intermittent flow trap set?	set?	∏ Yes	Yes	L. S.	If Yes, type: OBM	BM 🔲 Caulk dam	general describeration of the control of the contro	
TO THE OWNER OF THE PROPERTY O								

Outfall Reconnaissance Inventory Field Sheet

Section 1: Back	SOURCE STREET,	AND DESCRIPTION OF THE PERSON	THE RESIDENCE AND ASSESSED.	eror Theorem is represent the six of texts of the state o				
Subwatershed:	Che	halis Riv	ner		Outfall ID: # 2	1 Young St		AND THE PERSON NAMED IN
Today's date:	12	2-8-11			i inie (wintary):	0930		
Investigators:	Spri	inger			Form completed by:			
Temperature (°F)); <u>4</u> (0	Rainfa	all (in.): Last 24 hours:	φ Last 48 hours:	ø		
		· N	Longitude:	123° 48′ 18′ W	GPS Unit:		GPS LMK #:	
Camera: NA Land Use in Drain		(Chaole all that			Photo #s:			
	няве ми	я (Споск ан шаг	i appty):		44			
☐ Industrial				•	Open Space			
Ultra-Urban R	Cesidenti	al			Institutional			
Suburban Res	idential				Other:			
☐ Commercial					Known Industries:			
Notes (e.g., origin	n of outfi	all, if known):						
	······································			•				
Section 2: Out	fall De	ecrintian	The second secon	LEVEL COLUMN OF THE TENERS OF THE PROPERTY WERE ARRESTED AND T		man to the party of the party o	House, more and beautiful more recognized south	Accommodification completes the first instrument of the complete of the comple
LOCATIO	A CHARLES THE COURSE	MATE	RIAL	SHA	тел жини жене жене жене жене жене жене жене	DIMENSIO	MIC VINI	SUBMERGED
ALERSON HEREN MANAGEMENT AND	ar desprise de Servicio est	RCP	□ СМР	Circular	Single	Diameter/Dimens	A STATE OF THE PERSON NAMED IN COLUMN NAMED IN	In Water:
		□PVC	HDPE	☐ Eliptical	Double	24'		□No
Closed Pipe		Steel	Land	Вох		<u></u>		Partially Fully
ET CHOOL Y 190		Other:			Triple			With Sediment:
		. Onier,		Other:	Other:			☐ No ☐ Partially
THE RESIDENCE OF THE PARTY OF T		Concrete	White complete little and a find the complete little and a find a	IN BORNES BEGONNECOS (4.55) PRINTY PR	CONTRACTOR	NAME OF THE OWNER, WHEN THE PARTY OF THE OWNER, WHEN THE OWNER, WHEN THE OWNER, WHEN THE OWNER, WHEN THE OWNER,	THE OWNER OF THE PARTY OF THE P	Fully
		-		☐ Trapezoid		Depth:		
☐ Open drainag	;e	☐ Barthen		Parabolic		Top Width:		
		rip-rap		Other:	•	Bottom Width:		
ekarina mankana kandenami pamayan di ina rasa makibir sa	ANGUN HARRIS	Other:	EAN PERMIT	Control of the Contro	Stratings very to describe very \$1 described ver	DOMOIN TY MILL.		
☐ In-Stream	TRANSPORTER TO THE PARTY OF THE	(applicable wh	Character and the second	BOND TO THE PROPERTY OF THE PR	AND THE WORLD SECOND SE		The second second second second	filoral radionika ikopida kiri kirika kiri keri pentamika da adareka akanda milipoli
Flow Present?	Cary area and the mental of	Yes	[ZHVo	If No, Skij	p to Section 5		190	William control of the first to design and the present of the second of
Flow Description (If present)		☐ Trickle	☐ Moderate	e Substantial				elektronomia yelektronomia yelektronomia yelektronomia yelektronomia yelektronomia yelektronomia yelektronomia
Section 3: Qua	ntitati	ive Characte	rization	permetaparters & decorptions and executively accounting control devictor (seconds), to pre-	OSANIARA (C. M. MACATARA (M. 1996) DE ARA (SENTE ESPANICE CONSTRUCTION (M. 1996) DE ARA (SENTE ESPANICE CONSTRUCTI	женоми поменения очение в поменения в под от разму	THE PROPERTY OF THE PARTY OF TH	eraszanismo endental olikultariosatolik yaznios indodu
The second secon	CONTRACTOR OF THE STREET	CONTRACTOR OF THE PARTY OF THE	Market by V. Au	FIELD DATA FOR FL	LOWING OUTFALLS	paga Conspirit (Aggin as mark mark and an anna an a	The state of the s	trystel messesservine at 23 = 3 process experience blues and 20
P	ARAME	TER		RESULT	······	UNIT	EO	UIPMENT
□Flow#1		Volume		<u> </u>		Liter		Bottle
hang		Time to fill				Sec		
		Flow depth				In	Та	pe measure
∏Flow #2		Flow width		333		Ft, In	Ta	pe measure
		Vieasured length		33		Ft, In	Ta	pe measure
	1	Time of travel				S	S	Stop watch
-	Tempera	ture				•F	Tl	nermometer
	pH				p	H Units	Tes	st strip/Probe
	Ammor	nia				mg/L	•	Test strip

Illicit Discharge Defection and Elimination: Technical Appendice

(e.g., obvious oil sheen, suds, or floating sanjtary materials) ☐ 3 – Noticeable from a 3 - Some; origin clear ☐ 3 – Clearly visible in outfall flow ☐ 3 — Opaque distance RELATIVE SEVERITY INDEX (1-3) COMMENTS of origin (e.g., possible suds or oil sheen) ☐ 2 — Some; indications Obvious ☐ 2 — Clearly visible in sample bottle 2 - Easily detected ☐ 2 — Cloudy Suspect (one or more indicators with a severity of 3) ☐ 1 — Few/slight; origin not obvious Caulk dam 1 - Slight cloudiness ☐ 1 – Faint colors in sample bottle 1 - Faint (If No, Skip to Section 6) OBM Oil Sheen Peeling Paint Other: If Yes, type: Other: (If No, Skip to Section 5) DESCRIPTION ☐ Colors ☐ Floatables ☐ Excessive Algae ☐ Yellow Green \Box Spalling, Cracking or Chipping Corrosion Rancid/sour Petroleum/gas ☐ Flow Line ☐ Paint Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? DESCRIPTION Inhibited See severity Other: Orange ☐ Gray Suds ☐ Red ☐ Pool No Ņ, Ņ, Potential (presence of two or more indicators) Sewage (Toilet Paper, etc.) ☐ Excessive Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Orange □ Brown Other: Odors Suds Petroleum (oil sheen) ☐ Brown Are physical indicators that are not related to flow present? ☐ Flow ☐ Yes Sewage Sulfide Green ☐ Clear CHECK if Present Section 6: Overall Outfall Characterization CHECK if Present Intermittent flow trap set? Section 7: Data Collection If yes, collected from: Sample for the lab? Abnormal Vegetation Pipe benthic growth Floatables -Does Not Include Trash!! Poor pool quality Outfall Damage Deposits/Stains INDICATOR INDICATOR Turbidity ☑ Unlikely Color Odor

Outfall Reconnaissance Inventory Field Sheet

CHANGE CONTRACTOR OF CHANGE CONTRACTOR OF CO	ground Data	tomaname be experimental particles cons	BANCONOMICO, SON CONTROL NO. TO STANCE S	and the second	and the second section of the second sec		
Subwatershed:	Chehalis R	ived		Outfall ID: #22	Newell ST	4.	
	12-8-11			Time (Military):	0930	·····	
Investigators:	Springer	· · · · · · · · · · · · · · · · · · ·		Form completed by	0930 Sprinsur P		
Temperature (°F):	40	L	ill (in.): Last 24 hours:	Last 48 hours:	ø °		
Latitude: 46°	58'45 N	Longitude:	123° 48' 28' W	GPS Unit:		GPS LMK #:	
Camera:		***************************************		Photo #s:	····		
Land Use in Drains	age Area (Check all the	at apply):		1 4			
☐ Industrial			•	Open Space			
Ultra-Urban Re	esidential						
Suburban Resid	lential			Other:			
Commercial				Known Industries:			
	of outfall, if known):	<u> </u>		-			
an an an ann an Annaigh an	on the state of th	THE REST OF THE PERSON NAMED IN COLUMN TWO	THE PROPERTY OF THE CHARLES PROPERTY OF THE PR	and the state of t		THE PARTY AND PAST OF THE PARTY PARTY.	igitaboa u kiya an kasaya la an anga al men uning pandasa kaning
Section 2: Outf	The state of the s				S-mo anymerican parameter separation patents and		o za wenistrani na angaza kanaga angaza kanaga angaza kanaga kanaga
LOCATION	-	ERIAL	A STATE OF THE PROPERTY OF THE	APE	DIMENSIO	ng i gala ang kari eta yang karang ang saya ya	SUBMERGED
	RCP	□СМР	-Circular	Single	Diameter/Dimer		In Water:
	☐ PVC	HDPE	☐ Eliptical	☐ Double	12	<i>'</i>	Partially Fully
Closed Pipe	☐ Steel		□ Вох	☐ Triple			
	Other:		Other:	Other:			With Sediment: ☐ No
							☐ Partially ☐ Fully
Parties of the Control of the Contro	☐ Concrete		STATE OF THE PROPERTY OF THE P	R. Martina Samerica y processor comp. 4 SEPO 4 SIMBle descrip Medical SE & 446 p. s.			
	☐ Barthen		Trapezoid		Depth:		
Open drainage	rip-rap		Parabolic		Top Width:		
	Other:		Other:		Bottom Width:		\ <i>00000000</i>
☐ In-Stream	CHARLEST ACTUAL TO SECRETARY COMMENTS AND ADMINISTRATION OF THE PARTY	when collecting	an and the state of the state o	de Augustina a Com deus gangangengo di Adela Arman yan ete distimbilik Admiktya eskapa		and the state of the state of the state of	
Flow Present?	☐ Yes	when conjecting	STATE OF THE PROPERTY OF THE P	lp to Section 5		NO VIEW BUT	. New Workshood community of proceedings of the content of the state o
Flow Description	A A STATE OF THE PROPERTY OF T	Control of the second company of the second of the second	Paris Control (1970) 1984 Section and the Control of State Control of Stat	.IP 10 SCCUON 3 тики натаканамака натаканала	Chronelle de la Christian print, les les les les parties print print print quant quant quant quant quant quant		ant track transcripts of training decreases yet of 2 th Chillian and 100 Chillian and anti-
(If present)	☐ Trickle	☐ Moderat	e Substantial				
Section 2. One	ntitative Charac	tanimation	and the second s		ATTENNESS OF THE PERSON OF	A STATE OF THE PART OF THE PAR	одоживания подпоста филосом (в серествения в подпоста со общения в подпоста со общения в подпоста со общения в
Scenon 3; Qua	HUMING CHAIRC	ETRATION	field data for i	OMING OUTEAL	eioni jani itani manatana man	PACHER STREET	THE COMPANY AMERICAN PROPERTY OF THE COMPANY AND AN AREA OF THE COMPANY AND AR
P	ARAMETER	· · ·	RESULT	TOWALLO COTTALL	UNIT	G	QUIPMENT
	Volume				Liter	,	Bottle
∏Flow#1	Time to fill				Sec		
	Flow depth				In	7	ape measure
□Flow #2	Flow width) »		Ft, In		ape measure
L IOW IFA	Measured leng	th	, ,,		Ft, In	Т	ape measure
	Time of trave	1.			S		Stop watch
,	Temperature				°F.	,	Thermometer
	рН				pH Units	Т	est strip/Probe
	Ammonia		,		mg/L		Test strip

Illicit Discharae Defection and Elimination; Technical Appendices

V Unlikely
Sample for the lab?
m: Tiow Dool
1 1 W [

Outfall Reconnaissance Inventory Field Sheet

Section 1: Back	elfontanamen	THE WAY AND ADDRESS OF THE PARTY OF THE PART	1900000cchyrai arqyyar				
Subwatershed:	Cheh	ruls River			Outfall ID: #2	3 HARBOR ST.	
'		//			Time (Military):		
Investigators:		ingur	~		Form completed by:	Springsor	
Temperature (°F):	4	0		all (in.): Last 24 hours:	Last 48 hours:	Ø'	
Latitude: 46	°58	44'N Lon	gitude:	123°48"33" W	GPS Unit:	GPS LMK	tt:
Camera: NA				· · · · · · · · · · · · · · · · · · ·	Photo#s:		
Land Use in Drain	age Are	a (Check all that app	ly):				
☐ Industrial				•	Open Space		
Ultra-Urban Ro	esidentia	al			Institutional		
Suburban Resid	dential				Other:		
Commercial							-
Notes (e.g., origin	of outfa	all, if known):					
Control of the second s	Rad E Col Vings Piles	en rennen samerkelen 4000 killen solle sollen samering o <u>n insert</u> ener	o Carata de Cara	en de la companya de	en hande seller hande se se ken seller for der net en	CONTRACTOR CONTRACTOR PARTIES FOR STANDARD STAND	
Section 2: Outf	· ·	A TAXABLE A SHELLIS MALANTANIAN BATTERS AND PARTY OF THE	***************************************	despite variet success popularities de services para de services d			and the particular commence where the particular section is a second of the particular section of the particular section is a second of the partic
LOCATION		MATERIA	*************	SHA	CHARLY MALE CONTRACTOR OF THE PARTY OF THE P	DIMENSIONS (IN.)	SUBMERGED
		}	CMP	Circular	Single	Diameter/Dimensions:	In Water:
			HDPE	☐ Eliptical	☐ Double	12"?	☐ Partially ☐ Fully
Closed Pipe		Steel		□ Вох	Triple		With Sediment:
		Other: ?		☐ Other:	Other:		□ No
							☐ Partially ☐ Fully
		Concrete		The state of the s	Lawrendswell copyrights to constitute on the before the service of the public of the p	a kinama missi kata kata kata kata kata kata kata kat	
p		☐ Earthen		Trapezoid		Depth:	
Open drainage	е	☐ rip-rap		Parabolic Parabolic		Top Width:	
		Other:		Other:		Bottom Width:	
☐ In-Stream	З ЯТАНОВИВИИ	(applicable when	collecting	samples)	alamaken kan kur pampan propinsi propinsi pangan pangan pangan pangan pangan pangan pangan pangan pangan panga Pangan pangan panga	er yn delektro Citymus de Cityffelden dy feligieth y de de Cityfelden dy gegleidd y gyffeld y gyffeld y g	
Flow Present?		☐ Yes	[]No	protection and an incident the second service of the second servic	p to Section 5	ari directiva de salescada de esta de está conserva francismo en principalmente de descanación de esta de esta	randon total parameters and opposite the compact post model desired market before the
Flow Description	NAMES AND POST OF	Trickle	Moderat		A. A. A. A		elikulugunida mususus yyydisyddiddiddidd 2 PRI III II I I I Yrhynynyniai de e cyn ysg
(If present)	· ·	C THE STATE OF THE	************		TV SEA MAIN IN HEALTH AND ENGLISH THE SEA OF SEA		
Section 3: Qua	ntitat	ive Characteriz	ation				
				FIELD DATA FOR F	LOWING OUTFALL	3	
P	ARAMI	eter		RESULT		ONIL	EQUIPMENT
□Flow#I		Volume				Liter	Bottle
		Time to fill	-			Sec	
		Flow depth				In	Tape measure
∏Flow#2		Flow width		3 33		Ft, In	Tape measure
		Measured length		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Ft, In	Tape measure
		Time of travel				S	Stop watch
	Tempera					°F.	Thermometer
	pH						Test strip/Probe
	Ammo	nna				mg/L	Test strip

Illicit Discharge Defection and Elimination: Technical Appendices

3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials) ☐ 3 — Noticeable from a distance ☐ 3 — Clearly visible in outfall flow 3 - Opaque RELATIVE SEVERITY INDEX (1-3) COMMENTS of origin (e.g., possible suds or oil sheen) ☐ 2—Clearly visible in sample bottle ☐ 2 — Some; indications Obvious 2 - Easily detected ☐ 2 — Cloudy Suspect (one or more indicators with a severity of 3) ☐ 1 – Few/slight; origin not obvious Caulk dam ☐ 1 — Slight cloudiness ☐ 1 — Faint colors in sample bottle Outfall Reconnaissance Inventory Field Sheet ☐ 1 – Faint (If No, Skip to Section 6) □ OBM Oil Sheen Peeling Paint Other: If Yes, type: ☐ Other: (If No, Skip to Section 5) DESCRIPTION ☐ Colors ☐ Floatables ☐ Excessive Algae ☐ Yellow Other: Green ☐ Rancid/sour ☐ Petroleum/gas Spalling, Cracking or Chipping Corrosion ☐ Flow Line ☐ Paint Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Δ to physical indicators that are not related to flow present? \Box Yes \Box No SCRIPTION Other: ☐ Inhibited See severity ☐ Gray Suds Orange ☐ Pool Red LI No No No Potential (presence of two or more indicators) Sewage (Toilet Paper, etc.) Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes ☐ Orange ☐ Excessive ☐ Brown Other: Petroleum (oil sheen) Odors ☐ Brown Are physical indicators that are not related to flow present? ☐ Flow ☐ Yes ☐ Yes Sulfide Sewage ☐ Green Clear CHECK if Present Section 6: Overall Outfall Characterization CHECK if Present Section 7: Data Collection Intermittent flow trap set? If yes, collected from: Sample for the lab? Abnormal Vegetation Pipe benthic growth Floatables -Does Not Include Trash!! Poor pool quality Outfall Damage INDICATOR Deposits/Stains INDICATOR Turbidity 区 Unlikely Color Odor

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	Cheh	alis Rive	<u> </u>		Outfall ID;	#24	Kansas	S+.	
Today's date:	12-	8-11			Time (Milit	tary):			
Investigators:	Spring	ger	·		Form comp	leted by:			
Temperature (°F):	40	, 	Rainfa	ll (in.): Last 24 hours:	D Last 4	8 hours:	Ø		
Latitude: 46°	58'3	37'N 1	ongitude:	123°48'41'W	GPS Unit:			GPS LMK #:	
Camera: NA			·	-	Photo #s:				
Land Use in Drain	age Area	n (Check all that a	apply):		• •	13			
☐ Industrial				•	Open S				
Ultra-Urban Ro	esidentia	I			☐ Instituti	onal			
🔲 Suburban Resi	dential				Other:				
Commercial					Known Ind	lustries:		***************************************	
Notes (e.g., origin	of outfa	ll, if known):							
	otan ngaWawelli Politi		NOTICE TO BE SEEN TO SEE THE S	,					
Section 2: Outf	fall Des	scription						AND THE PERSON NAMED AND THE PERSON NAMED ASSESSMENT AND THE PERSON NAMED ASSESSMENT ASS	THE CHARLES SENSE AND CONTRACT THE RELLECT THE RECOVER OF THE PROPERTY OF THE
LOCATION	CHICAGON STATES	MATER	TAL	SH	APE	HOLDER TO THE BOOK OF THE BOOK	DIMENSI	ONS (IN.)	SUBMERGED
		RCP	□ СМР	[Circular	Single		Diameter/Dimer	nsions:	In Water:
		☐ PVC	☐ HDPE	☐ Eliptical	☐ Double		15'	,	☐ No ☐ Partially
Closed Pipe		Steel		☐ Вох	Triple				Fully
1		Other:		Other:	Other:				With Sediment:
									☐ Partially ☐ Fully
Franklikk informationary sales socie bezambanych ordinda	- <u>A. C. SAND</u> /FC 128	Concrete	The latest and the la	A productive productive and the second second second second section (A. S. C.	A SECTION OF THE PROPERTY OF THE PARTY OF TH	A CONTRACTOR OF THE	ta lõhusen mikkkun lusuvahystatistusi JA Taraka	and the second s	
1		Earthen		Trapezoid		,	Depth:		
Den drainage	e	☐ rip-rap		Parabolic		,	Top Width:		
		Other:		☐ Other:			Bottom Width:		
In-Stream	-	(applicable who	of transcription of the second	(CO NAME OF THE OWN OF THE OWN OF THE OWN OF THE OWN	ZPALINOVAL CONTRA PROMOTO BOXANCE ROCKETORY	EASTER SHOULD AND AND AND AND AND AND AND AND AND AN	encesnor s menon arministrativa personon	and the second of the second of the second	
Flow Present?		Yes	In conceeding	CONTRACTOR CONTRACTOR OF THE PROPERTY OF THE P	anna anna anna anna anna anna anna ann	PERSONAL PERSONAL INCOME.		aria di Angeles de la Serie de la Constantina de la Constantina de la Constantina de la Constantina de la Cons	and the processes and a process success of the second state of the
Flow Description	anger washing you had	☐ Trickle	☐ Moderate	The second se	ip to Section 5	n tik stelek pre sampjene sjemen	ANGERTAR WAY STORY AND A STANDARD CONTRACTOR	K. Telebras variante de la posta de properto de la prope	arthydrogenes pyrthogi dynddiwydda o drol au Caf Dagochyr a ydd oldegol ar
(If present)	E quarte de la companyon de la	T HOKIC	[_] INTOGERA	e [] prostantial		The State State of the State of State o	الجيفيا و حكامة حود الأمال المال		en formande hang in editi editya onat kelaifi fara in
Section 3: Qua	ntitati	ve Character	ization	THE REPORT OF THE PROPERTY OF		William Service and the			
			. · · · · · · · · · · · · · · · · · · ·	field data for f	LOWING OU	TFALLS			•
P	ARAME	<u></u>	·	RESULT		u	NTT	EC	QUIPMENT
□Flow#1		Volume				J	iter		Bottle
	ļ	Time to fill					Sec		
		Flow depth				·	In	Т	ape measure
☐Flow #2		Flow width		, , ,,		F	't, In	Т	ape measure
		Acasured length		, ,,		I	t, In	T	ape measure
	<u> </u>	Time of travel					S		Stop watch
	Temperat	ture					°F	<u> </u>	hermometer
	pH					<u>-</u>	Units	Te	st strip/Probe
	Ammor	118		CONTRACTOR AND CONTRA)	ng/L		Test strip

Illicit Discharge Defection and Elimination: Technical Appendic...

Outfall Reconnaissance Inventory Field Sheet

rs for Flowing Outfalls Only sent in the flow? \square Yes \square No (if No, Skip to Section 5)	CHECK IF DESCRIPTION RELATIVE SEVERITY INDEX (1-3) Present	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ 1 - Faint ☐ 2 - Easily detected ☐ 3 - Noticeable from a distance ☐ Sulfide ☐ Other:	☐ ☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ 1 − Faint colors in ☐ 2 − Clearly wisible in ☐ 3 − Clearly visible in outfall flow outfall flow	See severity \Box 1 – Slight cloudiness \Box \Box 2 – Cloudy \Box 3 – Opaque	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ 1 - Few/slight; origin of origin (e.g., obvious oil not obvious sheen) ☐ Other: ☐ Other: ☐ Other: ☐ Sewage (Toilet Paper, etc.) ☐ Suds or oil sheen) ☐ Other: ☐ Petroleum (oil sheen) ☐ Other: ☐ Sanjtary materials)	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls 4 re nhysical indicators that are not related to flow present?	DESCRI	Spalling, Cracking or Chipping Paint Corrosion	☐ ☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ ☐ Brown ☐ Orange ☐ Green ☐ Other:	haracterization	Dotential (presence of two or more indicators) Suspect (one or more indicators with a severity of 3)		□ Yes	T Flow Pool	
for Flowing Outfalls Only tin the flow? \square Yes \square No		Sewage Sulfide	Clear Green			for Both Flowing and Non-Flow	1	Spalling.	U dio U				racterization	l (presence of two or more indica		Yes	Flow	3.2
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	INDICATOR CHEC	Odor	Color	Turbidity	inde .	Section 5: Physical Indicators for Both Flowing and Noi	INDICATOR CH	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	Unlikely Dotential	Section 7: Data Collection	1. Sample for the lab?	2. If yes, collected from:	

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Back	groun	id Data	A Party Proprietoria	MAN				
Subwatershed:	Chel	halis Rive	1		Outfall ID:	425 HERUR	1 ST 1	(East)
Today's date.					Time (Military):	1030	(
Investigators:		nger			Form completed by			
Temperature (°F):		40	Rainfa	all (in.): Last 24 hours:	Last 48 hours	: Ø		
Latitude: 46	°58'3	36' N	Longitude:	123° 48' 41'W	GPS Unit:		GPS LMK#:	
Camera: NA					Photo#s:			
Land Use in Drain	age Are	a (Check all the	at apply):		•			
☐ Industrial				•	Open Space			
Últra-Urban R	esidenti	al	-		☐ Institutional			
Suburban Resi	dential				Other:			
Commercial					Known Industries:			
Notes (e.g., origin	of outfa	all, if known):						
COLUMN COLUMN CONTRACTOR CONTRACTOR DE CONTR	odek istolytu yanifaks	anan si sikikin ondan prangatiya	KARTINETO CITI ALPINI CALINICON CONTRACTO	· · · · · · · · · · · · · · · · · · ·	The state of the s	A Arment Linux and an area of the second and the se	eri erra d elegiska erra erra erra erra erra erra erra er	
Section 2: Out	-	Season and the season of the s	THE STATE OF THE PROPERTY OF T	The state of the s	ikan parangan pangan		Sandrian in the	entyel veltocoj kat kilot et za popykanov elektrik totat zakatek popykanov kate
LOCATION		Mestalent at the same at the s	ERIAL	The section of the se	APE	DIMENSIÓ	THE RESERVE SHIPS AND ADDRESS.	SUBMERGED
		□ RCP	□ СМР	Circular	[] Single	Diameter/Dimens		In Water:
		□ PVC	HDPE	Eliptical	☐ Double	/8"		Partially
Closed Pipe		Steel		□ Вох	☐ Triple			With Sediment:
		Other:		Other:	☐ Other:			□No
		1)			☐ Partially ☐ Fully
A to make a section of the section o	and Comment I	Concrete	The Property of the Section of the S	and the second control of the second control	«А Меся (може оруше 2000 года в 11 года (може оруше 14 года (може оруше 14 года (може оруше 14 года (може оруше 1	COMMENTS OF THE PROPERTY AND A STATE OF THE PROPERTY OF THE PR	bookista unkil (ska) (), bij pojesta unker i	
		☐ Barthen		Trapezoid		Depth:		
🔲 Open drainag	e	☐ rip-rap		Parabolic		Top Width:	-	
		Other:		Other:		Bottom Width:		
In-Stream	et Austria use	* · *****	vhen collecting	samples)	MicroPrice Com the purposed systems when the state you get Apropried Street, S	aveno esta esta esta esta esta esta esta esta	CONTRACTOR OF THE PARTY OF THE	
Flow Present?		Yes	₽ No	MARKO SINTENNA PROPRINCIPAL SOCIETA PROPRINCIPAL SOCIETA SOCIE	lp to Section 5	atrycking i design sign biggs plagage formacy with sorthigeness; a symmetry pyrain tak	PARIBANICANA (CARIBANICANA CARIBANICANA) CAR	and which the management of the control of the cont
Flow Description (If present)	angerasi di resiri	☐ Trickle	☐ Moderat		A	он дерноску в никастина удлес — селейск. колаун факший авалушар	Tan Construction and American September 1914 And American	andria (n. 1914). San ang ang ang ang ang ang ang ang ang a
Section 3: Qua	ntitat	ive Charact	erization	in file ennemmentele silvering en	a rezonaminine/vibus (Authorite van Zeroz Perpublika) per la Marring der	жээндөгүүн хэў я алдаган рэсігэ ў тамы я я ох ^і л аравдаган ў		kendekomusularsa kerkitak fisik etimok-makamayakinyaksa fisiko
State of the state	(1) 3 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	reconny)2112402414044444444	A STORY OF THE STORY OF THE STORY	FIELD DATA FOR F	LOWING OUTFAL	unicae in mariana in m LS	(************************************	the transfer from the every solven and the property of the every of th
Р	ARAM	ETER		RESULT		UNIT	E	QUIPMENT
□Flow#1		Volume				Liter		Bottle
		Time to fill				Sec		
		Flow depth				In	Т	ape measure
□Flow #2		Flow width		, 3)		Ft, In	Т	ape measure
		Measured lengt		3 33		Ft, In	Т	ape measure
		Time of travel				S		Stop watch
	Temper					•k	T	'hermometer
	pH					pH Units	Te	est strip/Probe
	Ammo	onia				mg/L		Test strip

Illicit Discharae Detection and Elimination: Technical Appendice

(e.g., obvious oil sheen, suds, or floating sanitary materials) ☐ 3 – Noticeable from a distance 3 - Some; origin clear ☐ 3 — Clearly visible in outfall flow ☐ 3 — Opaque RELATIVE SEVERITY INDEX (1-3) COMMENTS of origin (e.g., possible suds or oil sheen) \square 2 – Clearly visible in sample bottle ☐ 2 — Some; indications Obvious ☐ 2 - Easily detected ☐ 2 — Cloudy Suspect (one or more indicators with a severity of 3) ☐ 1 — Few/slight; origin not obvious Caulk dam ☐ 1 — Slight cloudiness ☐ 1 — Faint colors in sample bottle ☐ 1 — Faint (If No, Skip to Section 6) □ OBM Oil Sheen Peeling Paint Other: If Yes, type: Other: (If No, Skip to Section 5) DESCRIPTION ☐ Colors ☐ Floatables ☐ Excessive Algae ☐ Yellow Green Spalling, Cracking or Chipping Corrosion ☐ Rancid/sour ☐ Petroleum/gas ☐ Paint Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls DESCRIPTION See severity Other: ☐ Inhibited ☐ Gray Suds Orange ☐ Red ☐ Pool Tow Line S. E.S. Potential (presence of two or more indicators) Sewage (Toilet Paper, etc.) Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? ☐ Brown ☐ Excessive Orange Other Odors Petroleum (oil sheen) ☐ Brown Are physical indicators that are not related to flow present? ☐ Flow ☐ Yes Sewage Sulfide Green Clear CHECK if Present Section 6: Overall Outfall Characterization CHECK IF Present Intermittent flow trap set? Section 7: Data Collection If yes, collected from: Sample for the lab? Abnormal Vegetation Pipe benthic growth Floatables -Does Not Include Trash!! Poor pool quality Outfall Damage Deposits/Stains INDICATOR INDICATOR Turbidity ☑ Unlikely Color Odor

Outfall Reconnaissance Inventory Field Sheet

Section 1: Back								
Subwatershed:	Chel	rales Riv	w		Outfall ID: ヰ,	06 R./R. A	Ditch	and an extension of the second
Today's date:		2-8-11			Time (Military):	1015		
Investigators:	<u>ු</u>	pringer 40	···		Louis completed of	Springer	-	
Temperature (°F):		40	Rainf	fall (in.): Last 24 hours:	Dast 48 hours	Ø		
Latitude: 46°	'58' 3	I'N	Longitude:	123°48'34'W	GPS Unit:		GPS LMK#:	
Camera: NA		(C) 1 1 1			Photo #s:			
Land Use in Drain	iage Are	ea (Check all tha	ıt apply):		15			
☐ Industrial				•	Open Space			
Ultra-Urban R	esidenti	al			☐ Institutional			
Suburban Resi	idential				Other:			
Commercial					Known Industries:			
Notes (e.g., origin	of outfa	all, if known):			•			
Cooking	C. 11 T)		A THE RESERVE OF THE PROPERTY	ingelies installed and seeing printed and reaching comments to the paper to be and	Da. Malacotti de este especia (2007) de este este este este este este este e	desidenti karanda an kada kada kada kada kada kada ka	is montheath of the sections	de de la companya de
Section 2: Outi	THE CASE OF THE PARTY OF THE PA	A SA SAME LANGUAGE STATE OF THE PARTY OF THE	ERIAL	C'AL	APE	Parkernicka	IN COST Y	CASE I TO B. M. Seller.
THE REAL PROPERTY OF THE PROPE	.T PROGRAM MANAGEMENT	RCP	☐ CMP	☐ Circular	Single	Dimension Diameter/Dimensi	CONTRACTOR AND ADDRESS OF THE PARTY AND ADDRES	SUBMERGED
		□PVC	HDPE	☐ Eliptical		/2"		In Water:
Closed Pipe			LI HDE		Double	12		Partially
LE Closed Pipe		Steel		Вох	Triple			With Sediment:
		Other:		Other:	☐ Other:			□ No □ Partially
Transference of the second contract of the se	mak ye. Andrews Proc 200		ONTERSORAL INSCRIPTION OF CONTROL			MANT TO THE PROPERTY AND A SECURITY OF THE PROPERTY AND A SECURITY OF THE PROPERTY AND A SECURITY ASSESSMENT AS A SECURITY AS	The later of the l	Fully
		Concrete		☐ Trapezoid		Depth:		<i>\(((((((((((((((((((</i>
☐ Open drainage	e.	Earthen		Parabolic		i		
- Shou manning		☐ rip-rap				Top Width:		
42.07		Other:		Other;		Bottom Width:		
☐ In-Stream		(applicable w	hen collecting	g samples)	de volken i en y er prop erie y h y de dellakoster par y specifiabezakolde y zebely	openinya katan (asan yangan) da ing Mahahah (Almaha) ng mga s	CONTRACTOR CONTRACTOR OF THE CONTRACTOR CONTRACTOR	de frankrika kariba kiri kakentra karbanka kariba kariba kariba kariba kariba kariba kariba kariba kariba kari Angaran kariba kari
Flow Present?	enggaper - Maddy Balleria	☐ Yes	[YNo	If No, Ski	p to Section 5	Acar ((Consey to related) must select the control fellow (Acar	Militario de Indiantidado entreferir filosoficas	
Flow Description (If present)		☐ Trickle	☐ Modera	te Substantial	alling for contract constant of the contract for the contract for the page of the contract for the contract	an ann an t-aireann		на на междуниция на примерований до в до Состой и сторований общений в подруго
Section 3: Qua	ntitati	ive Characte	erization	Security Sec		ranghripan jafaran nguning puning ti kururur 2 un'un 2		Historian pilossa esisten pid eliket Pitto Alitai Palifornoviasa japan
	·			field data for f	LOWING OUTFALL	S		H In the Beautiful Control of the Control Control of the Control o
P	ARAMI	FTER		RESULT		UNIT	EC	QUIPMENT
□Flow#1		Volume				Liter		Bottle
		Time to fill				Sec		
		Flow depth				In	T	ape measure
□Flow #2		Flow width		3 33		Ft, In		ape measure
	ļ'	Measured length Time of travel)			Ft, In		ape measure
	Tempera				·	S		Stop watch
	рН					oF.		hermometer
	Ammo					pH Units		st strip/Probe
	Amno	IIIG				mg/L		Test strip

lilicit Discharge Detection and Flimination: Technical Appendices

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	dicators for FIL ors Present in the	owing Outfal	Is Only s		(If No, Skip to Section 5)			
INDICATOR	CHECK If Present			DESCRIPTION		,	RELATIVE SEVERITY INDEX (1-3)	(2,1)
Odor		Sewage	☐ Rancid/sour ☐ Other:	our 🗌 Petroleum/gas	n/gas	1 – Faint	2 - Easily detected	☐ 3 — Noticeable from a distance
Color		Clear Green	☐ Brown ☐ Orange	☐ Gray	☐ Yellow ☐Other:	1 – Faint colors in sample bottle	2 – Clearly visible in sample bottle	3 – Clearly visible in outfall flow
Turbidity				See severity		☐ 1 — Slight cloudiness	□ 2 – Cloudy	☐ 3 — Opaque
Floatables -Does Not Include Trashil		☐ Sewage (Tollet Paper ☐ Petroleum (oil sheen)	Sewage (Toilet Paper, etc.)	.) Suds		1 – Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., oʻovious oil sheen, suds, or floating sanjitary materials)
Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	dicators for Be that are not rele	ith Flowing ai	nd Non-Flov resent?	wing Outfalls	(If No, Skip to Section 6)	Section 6)		
INDICATOR	CHECK IF Present	Present	The state of the s		DESCRIPTION		COMMENTS	S
Outfall Damage			Spalling Corrosion	Spalling, Cracking or Chipping Corrosion	ping 🔲 Peeling Paint	Paint		
Deposits/Stains		J1		☐ Flow Line ☐ F	☐ Paint ☐ Other:			
Abnormal Vegetation			☐ Excessive	☐ Inhibited			a CONCENTRATION OF THE PROPERTY OF THE PROPERT	O COMPANY OF THE PROPERTY OF T
Poor pool quality			Odors Suds	☐ Colors ☐ Excessive Algae	☐ Floatables ☐ Oil Sheen Igae ☐ Other:	heen		
Pipe benthic growth			☐ Brown	☐ Orange	Green Other:	12		The second secon
Section 6: Overall Outfall Characterization	tfall Character	ization		megicanagementesserergischen er eine eine eine eine eine eine eine		e de la companya de l		
☑ Unlikely	Potential (presence of two or more indicators)	sence of two or	r more indica	ators)		Suspect (one or more indicators with a severity of 3)	y of 3) 🔲 Obvious	
Section 7: Data Collection	tion						A COLUMN TO THE PARTY OF THE PA	
 Sample for the lab? 			□ Yes	⊡ No				
2. If yes, collected from:	ا انت	ā	∏ Flow	☐ Pool				
3. Intermittent flow trap set?	set?	☐ Yes	Yes	D.V.	If Yes, type:	☐ OBM ☐ Caulk dam		
								· •

Outfall Reconnaissance Inventory Field Sheet

Section 1: Back	groun	d Data	Property of the Confession of			AND THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE		to provide (ANA Printing to Common to Associate
Subwatershed:	Chel	halis Rive	<u> </u>	4-436H	Outfall ID: #2	27 Benn S	s +	Control of the Contro
Today's date:					Time (Military):			
Investigators:	Spr	inger			Form completed by			
Temperature (°F):	•	to	Rainf	all (in.): Last 24 hours:	🛭 🗸 Last 48 hours:	Ø		
Latitude:			Longitude:		GPS Unit:		GPS LMK #:	
Camera: NA					Photo #s:			
Land Use in Drain	age Are	a (Check all that	t apply):					
Industrial				•	Open Space			
Ultra-Urban Re	esidentia	al			Institutional			
Suburban Resi	dential				Other:			
Commercial					Known Industries:			
Notes (e.g., origin	of outfa	ıll, if known):						
				-				
CONTRACTOR SHOWS AND A STREET ON SHOW	There extra sp. 28 bets	eneran entre de l'arte de	THE RESIDENCE OF THE PARTY OF T	ompediatel periodical and periodical and analysis analysis and analysis analysis and analysis analysis analysis and analysis and analysis and analysis analysis a	nder von der er e	erieni-ille Vicente on Wilder III in 1981 in 1981 in 1981		
Section 2: Outs	THE ROSSIES OF THE PERSON		CAN Francisco		an an episte sidd ber person holyd yw honor ha'r wenn a senn a traw an a tha an	Company of the Compan	THE RESIDENCE OF THE PARTY OF T	THE RESERVE OF THE PROPERTY OF
LOCATION	A A A A A A A A A A A A A A A A A A A	MATE	-	AND THE PROPERTY OF THE PROPER	APE	DIMENSI	National Association of the Contract of the Co	SUBMERGED
		□ RCP	□ СМР	☐ Circular	E Single	Diameter/Dimer	nsions:	In Water:
,		□PVC	HDPE	Eliptical	Double	15"		☐ Partially ☐ Fully
Closed Pipe		Steel		☐ Box	☐ Triple			With Sediment:
		Other:		Other:	Other:			□No
								☐ Partially ☐ Fully
		Concrete	are the second of the second o	Signification of the control of the	TEAL BROWNING THE STATE OF THE		etres minutes en accepto la la manera de la companya de la company	
		☐ Earthen		Trapezoid		Depth:		
Open drainag	e	☐ rip-rap		Parabolic		Top Width:		
		Other;		Other:		Bottom Width:		
☐ In-Stream	MANAGEMENT OF THE PARTY OF THE	(applicable w		r samules)	g segmenter gene gast busineska kitalis presiguente kit predament by Archivel (A. Weste	parameter programment and the contract of the	THE RESERVE THE PERSON NAMED IN	
Flow Present?	TENTRAL PROPERTY.	☐ Yes	CYN ₀	CONTRACTOR OF THE PROPERTY OF	dp to Section 5	som (til garger) for hall so chart (til fillion) i fantsord	XXII MARKAR E MERITANIAN (V	TOWNS ST. THE STATE OF THE STAT
Flow Description	WALLOW SOLD THE PARTY.		With the property to the second section 1	Transcription of the Committee of the Co	ENTERPORTURE DE SENSION DE SENSIO	DANAMASK KORLI MANSKAŽ INI ORAV ELIMINIK (mar myste.	Calculate Canada Calculate Service Ser	·····································
(If present)	Linguistance interested from	☐ Trickle	☐ Modera	te Substantial				
Section 3: Qua	ntitati	ive Characte	erization					
Total Control of the	THE PERSON	ACCOUNTY) FITTH THE PROPERTY OF LOSS	AMMAN DANCE THE MACHINE ASSESSED	FIELD DATA FOR I	LOWING OUTFALL	,		40 Billion Com State Colored No. 9 Tono Colored State & State & State Colored
P	ARAMI	eter		RESULT		UNTT	E	QUIPMENT
□Flow#1		Volume				Liter	•	Bottle
I I IOW III		Time to fill				Sec		
		Flow depth				In	Γ	ape measure
□Flow#2		Flow width		, ,,,		Ft, In	Г	ape measure
		Measured length)	1 11		Ft, In	Г	ape measure
		Time of travel				S		Stop watch
	Tempera					°F.	7	Thermometer
	pH					pH Units	Te	est strip/Probe
	Ammo	nia				mg/L		Test strip

Outfall Reconnaissance Inventory Field Sheet

(If No, Skip to Section 5)	RELATIVE SEVERITY INDEX (1-3)	Petroleum/gas \square 1 – Faint \square 2 – Easily detected distance distance	Gray \square Yellow \square 1 – Faint colors in \square 2 – Clearly visible in sample bottle sample bottle outfall flow	Feverity \square 1 — Slight cloudiness \square 2 — Cloudy \square 3 — Opaque	Suds Cother: Other: Suds Cother: Other: Other: Suds Cother: Other: O	Dutialls I No (if No, Skip to Section 6)	DESCR	ig or Chipping 🔲 Peeling Paint	ne 🗌 Paint 📗 Other:	nibited	olors	ange 🗌 Green 🔲 Other:		\Box Suspect (one or more indicators with a severity of 3) \Box Obvious		0)	000]	
	RELA	☐ 1 — Faint	1 – Faint colors in sample bottle	1 – Slight cloudiness	1 – Few/slight, origin not obvious	ion 6)								dicators with a severity of .		The state of the s		
(If No, Skip to Section 5)	DESCRIPTION	☐ Petroleum/gas	☐ Grzy ☐ Yellow ☐ Red ☐ Other:	See severity	□ Suds □ Other:		DESCR		Paint	Datidihil	ĺ			Suspect (one or more in		Ĭo	Pool	
g Outfalls Only		☐ Sewage ☐ Rancid/sour ☐ ☐ Sulfide ☐ Other:	Clear Brown Cores Creen Corange C	See	Sewage (Toilet Paper, etc.)	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?		Spalling, Cracking or Chipping Corcosion	Oily How Line	☐ Excessive ☐ In	Odors Cook	☐ Brown ☐ Oi	n n	Potential (presence of two or more indicators)		☐ Yes ☐ No	Flow	
dicators for Flowin	CHECK if Present					licators for Both Fl that are not related t	CHECK if Present						fall Characterizatio	Potential (presence	non	AND THE CHARLES OF THE CONTRACT OF THE CONTRAC		, c
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!	Section 5: Physical Indicators for Both Flowing and Nor Are physical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	☑ Unlikely 🔲	Section 7: Data Collection	 Sample for the lab? 	2. If yes, collected from:	G

Section 1: Back	groun	d Data	THE STATE OF THE S					
Subwatershed:	Che	halis River			Outfall ID: #	28 Gatewo	y Mall	
Today's date:		8-11			Time (Military):	1045	•	
Investigators:	Sprin	·el			Form completed by:	Springer		
Temperature (°F):		10	Rainfa	II (in.): Last 24 hours:	Last 48 hours:	ø		
Latitude: 46°	58 ′3	3'N	Longitude:	123° 48' 6' N	GPS Unit:		GPS LMK #:	
Camera:			****		Photo #s:			
Land Use in Drain	age Are	a (Check all that	apply):		5			
☐ Industrial				•	Open Space			
Ultra-Urban Ro	esidenti	al			☐ Institutional			
Suburban Resi	dential			-	Other:	·		
Commercial					Known Industries:			
Notes (e.g., origin	of outfa	all, if known):			-			
	danasi Ymeritani		Market Color of the Color of th	HAN HELEN STANCES AND ESTATEMENT TO SERVE STANCE AND SERVE STANCES	A STATE OF THE STA	i i de jugo esta esta esta esta esta esta esta esta		THE PERSON OF TH
Section 2: Outf	·	scription MATER	***************************************				and the contract of the second second second second	
LOCATION	Name and the Association of	RCP	CMP	SHA	APE Single	DIMENSIO		SUBMERGED
		}		☐ Circular		Diameter/Dimen	stons:	In Water:
		PVC	HDPE	☐ Eliptical	Double	10		☐ Partially ☐ Fully
Closed Pipe		[4 Steel		Вох	Triple			With Sediment:
		Other:		Other:	Other:			☐ No ☐ Partially
TO THE REPORT OF THE PARTY OF T	A THE OWNER OF THE OWNER	·	and the latest of the latest o	Secretary of the second second secretary of the second sec				Fully
		Concrete		Trapezoid		Doubles		
☐ Open drainage		☐ Earthen		<u>}</u>		Depth:		
C Oben aramage		□ rip-rap		Parabolic		Top Width:		
		Other;		Other:		Bottom Width:		
☐ In-Stream	THE REAL PROPERTY.	(applicable wh	en collecting	samples)	在1988年1986年1986年1975年1986年1986年1986年1986年1986年1986年1986年1986	AND DESCRIPTION OF THE PARTY OF		
Flow Present?	Maria de Maria de	☐ Yes	[g/No	If No, Ski	p to Section S	ri inder jerody parami cokana si siki kalaksiyi birambiyya j	THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NAMED IN COLUM	MANAGEMENT OF THE PROPERTY OF
Flow Description (If present)		☐ Trickle	☐ Moderate	e ☐ Substantial	The state of the s	очен очений в темпорой, костий и подобой в Антина		rakkingan an ing pinangan kanakan kana an ing pinangan kanakan kanakan kan
Section 3: Qua	ntitati	ive Character	rization	THE RESERVE THE PROPERTY OF TH	North the Real Property and the Control of the Cont	rank garleng bibliograpii. Noord arronno noo garaa arry arry in man	Asykovania i dan kanana ka	No. 2 professioner (1860-1861) 1861 1862 1863 1864 1864 1864 1864 1864 1864 1864 1864
			· ·	FIELD DATA FOR F	LOWING OUTFALLS	} 		
P	ARAMI	·		RESULT		UNIL	EC	QUIPMENT.
□Flow#1		Volume				Liter		Bottle
		Time to fill				Sec		
		Flow depth Flow width		7 3)		In	·····	ape measure
□Flow #2	<u> </u>	Measured length		, 11		Ft, In		ape measure
	<u> </u>	Time of travel		-		S		ape measure Stop watch
,	L Tempera	~~				ok 2		hermometer
	pН					H Units		est strip/Probe
	Ammo	nia		and the second s	P	mg/L		Test strip
				The state of the s	SALES WHEN AND AND AND AND ADDRESS OF PARTY AND ADD	CARLO DE LA COMPANSION	ALTERNATION AND PROPERTY AND PARTY AND PARTY.	Construction of the second

Illicit Discharae Defection and Elimination: Technical Appendices

	RELATIVE SEVERITY INDEX (1-3)	2 – Easily detected distance	/ visible in	ıdy □ 3 – Opaque	2 – Some; indications [] 3 - Some; origin clear of origin (e.g., possible suds or oil sheen, suds, or floating sheen)		COMMENTS							☐ Obvious				
	CELATIVE SEVI	☐ 2 — Easi	2 – Clearly sample bottle	☐ 2 — Cloudy	☐ 2 – Some of origi possibl sheen)	·		The second secon							•			
		🗌 I – Faint	1 – Faint colors in sample bottle	1 - Slight cloudiness	☐ 1 — Eęw/slight; origin not obvious	ion 6)								dicators with a severi				JORM Caulk dam
(If No, Skip to Section 5)	DESCRIPTION	☐ Petroleum/gas	☐ Gray ☐ Yellow ☐ Red ☐ Other:	See severity	□ Suds □ Other:	Outfalls 저 No (If No. Skip to Section 6)	DESCR	ng or Chipping 🔲 Peeling Paint	ine 🗌 Paint 📗 Other:	Inhibited	☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Excessive Algae ☐ Other:	Orange Green Other:		Suspect (one or more indicators with a severity of 3)		Ν̈́ο	.1	T. V. C.
alls Only Yes Ho		Rancid/sour	Brown C	See	Sewage (Toilet Paper, etc.)	and Non-Flowing O		Spalling, Cracking or Chipping Corrosion	Oily Flow Line	☐ Excessive ☐ In	Odors C	☐ Brown ☐ C		Potential (presence of two or more indicators)		□ Yes □ No		
Flowing Outf		Sewage	Clear		☐ Sewage	Both Flowing	CHECK if Present						erization	resence of two				1
idicators for ors Present in t	CHECK IF Present					dicators for	CHECK		A CONTRACTOR OF THE PROPERTY O	фот — намери фот		O COCCURATION OF THE PROPERTY	tfall Charact	Potential (p.	rtion		п:	G
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls	INDICATOR	Outřall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	onlikely	Sartion 7. Bata Collection	1. Sample for the lab?		C7 7 77 77 7 7 7 7 7 7 7 7 7 7 7 7 7 7

Outfall Reconnaissance Inventory Field Sheet

Section 1: Back	Acres in Assessment	CARCON DE LOCKEMENT DE LA PRINCIPIO DE LA PRIN	70 ж гэж тандуу 0 гүү олгон		onale sameter commercial control and on the	and the state of t	WANTED STREET,	BOTH THE THE PARTY OF THE PARTY
Subwatershed:	Theh	alis River			Outfall ID: #	29 Morriso	n Park	
Today's date:	12-	811		**	Time (Military	1): 1045		
Investigators:	S	pringer	·		Form complet			
Temperature (°F):		to		II (in.): Last 24 hours:	Ø Last 48 h	ours: Ø		
Latitude: 4	6°58'	33'N L	ongitude:	23° 48′6′ W	GPS Unit:		GPS LMK #:	
Camera:					Photo #s:			
Land Use in Draina	age Are	a (Check all that a	pply): -			r _k		
☐ Industrial				•	Open Space	ee		
Ultra-Urban Re	sidentia	al			☐ Institution	al		•
Suburban Resid	lential				Other:			
Commercial					Known Indus	tries:		
Notes (e.g., origin	of outle	all, if known):		·				
ACCUSATE AND ACCUS	topings to the second tree	and the second of the second o	THE COLUMN TWO IS NOT THE OWNER, THE COLUMN TWO IS NOT THE OWNER, THE COLUMN TWO IS NOT THE OWNER, THE COLUMN TWO IS NOT THE COLUMN		THE REAL PROPERTY OF THE PROPE	NOTE A CONTROL TO A CONTROL OF THE PARTY OF	CONTRACTOR PROPERTY OF THE PRO	ander (fektorier) fij objektig eller Mooren zoeld (groep programme) ander so groep de
Section 2: Outf	- Control or Print	Seattle and the seattle seattl	d Viscon anna faoi an meanann an	POPER CONTROL SOCIETA DE MONTO POPER CONTROL SOCIETA DE POPER CONTROL SOCIETA DE POPER CONTRO		Ben with Grown in young paper paper by the print with the commence of the above of the forest tree.	Andreas and the second contacts	THE OWNER TO THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED ADDRESS OF THE PERSON NAMED AND
LOCATION	enconstitutions de l'es	MATER	IAL	WHEN THE PROPERTY HERE AND ADDRESS OF THE PERSON NAMED IN	APE	DIMENSIO	ons (In.)	SUBMERGED
		RCP	□ СМР	Z Circular	Single	Diameter/Dimen		In Water:
		☐ PVC	☐ HDPE	☐ Eliptical	☐ Double	24'		Partially Fully
Closed Pipe		Steel		□ Вох	Triple			•
'		Other:		☐ Other:	Other:			With Sediment: ☐ No
								☐ Partially ☐ Fully
TOTAL COMPANY OF THE PARTY OF T	A-16-PM-12	Concrete	COMPANY STATES OF THE STATES OF THE STATE OF	an pantananan dan salah sa	a Laurin dikaran ayakasan aran saan a namasaya,	***************************************	Chromopara de Caractera de Cara	
		☐ Earthen		☐ Trapezoid		Depth:		
☐ Open drainage	;	☐ rip-rap		Parabolic		Top Width:	_	
		Other:		☐ Other:		Bottom Width:		
T. CI.	andrews (ACC)		-	The second secon	od s nijera gog gan iz sad kanisari na iza s njegari na iza s njegari na iza s njegari na iza s njegari na iza	M. OF THE PROPERTY OF THE PROP	CONTRACTOR	
In-Stream	ALT: 10 10 10 10 10 10 10 10 10 10 10 10 10	(applicable whe	n conecting	ACTION OF THE PERSON OF THE PE			CENTRAL ENGINEERING PROPERTY OF THE PROPERTY O	Mean House make yangarangarangarangarangarangarangaranga
Flow Present? Flow Description	NAMES ASSESSED ASSESSED.	A STATE OF THE PARTY OF THE PAR	[<u>F</u>] 1/0	IJ IVO, SK	lp to Section 5	in Parisay pursuance and the substitute out the substitute of the		
(If present)		☐ Trickle	Moderate	e 🗌 Substantial				
Cooking 2. Our		ivo Cilcono atami	!	ndendravarande opprinse selementaria estado de la comete a		riikkilehista, ummik punganyun kelek in un daragal Arien darak minintak ili ili turuk engan		тирова поточно и поставления со поставления и поставления в поставления в поставления в поставления в поставлен
Section 3: Qua	Huun.	ive Character	IZALION	FIELD DATA FOR F	I OWING OUT	CALLO	Argintary and the second second second	Will blanch to the second of the second
P	ARAM	ETER	-:-	RESULT	LOWING GOT	UNTT		QUIPMENT
	A42 25.11 2	Volume	···	1,120		Liter		Bottle
□Flow#I		Time to fill				Sec		
		Flow depth			·	In		Tape measure
□Flow #2		Flow width		, ,,		Ft, In	~	Tape measure
LIL TOW ITE		Measured length		3 33		Ft, In	,	Tape measure
		Time of travel				S		Stop watch
,	l'emper	ature				°F.		Thermometer
	pl·l					pH Units	Т	est strip/Probe
	Ammo	onia		•		mg/L		Test strip

COMMENTS Obvious Suspect (one or more indicators with a severity of 3) Caulk dam (If No, Skip to Section 6) If Yes, type: OBM Oil Sheen Peeling Paint Other: Other: DESCRIPTION ☐ Colors ☐ Floatables ☐ Excessive Algae Green Spalling, Cracking or Chipping Corrosion ☐ Flow Line ☐ Paint Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? ☐ Inhibited Orange ☐ Pool S. Š, Potential (presence of two or more indicators) ☐ Excessive Odors ☐ Brown ☐ Flow ☐ Yes CHECK if Present Section 6: Overall Outfall Characterization Section 7: Data Collection Intermittent flow trap set? If yes, collected from: Sample for the lab? Abnormal Vegetation Pipe benthic growth Outfall Damage Poor pool quality INDICATOR Deposits/Stains ☑ Unlikely

(e.g., obvious oil sheen, suds, or floating sanitary materials)

of origin (e.g., possible suds or oil sheen)

□ 1 – Few/slight; origin not obvious

Other:

□ Suds

Sewage (Toilet Paper, etc.)

Petroleum (oil sheen)

Floatables -Does Not Include Trash!!

☐ 2 ~ Some; indications

☐ 2 — Cloudy

☐ 1 — Slight cloudiness

See severity

3 - Some; origin clear

3 - Opaque

☐ 3 – Noticeable from a

2 - Easily detected

☐ 1 — Faint

☐ Rancid/sow ☐ Petroleum/gas

Sewage Sulfide

Odor

DESCRIPTION

RELATIVE SEVERITY INDEX (1-3)

Outfall Reconnaissance Inventory Field Sheet

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

Yes

CHECK if

INDICATOR

☐ 3 — Clearly visible in outfall flow

 \square 2 – Clearly visible in sample bottle

☐ 1 – Faint colors in sample bottle

T Yellow Other

☐ Gray ☐ Red

☐ Brown

Orange

Green ☐ Clear

Color

Turbidity

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Back	THE PERSON NAMED IN	THE ENTITE OF THE PARTY OF THE	THE PARTY OF THE CONTRACT OF THE PARTY OF TH			and the second s	Managara and Managara	ergeneisi Os Statu Tulkarizatai/Mikataranaan
Subwatershed:	Che	halis Ri	soul .		Outfall ID: #	30 Sargent	Blul.	<i>‡1</i>
					Time (Military):	30 Sargent 1045		
Investigators:	Spring	«			Form completed by:			
Temperature (°F):	40			all (in.): Last 24 hours:	Last 48 hours:			
Latitude: 46°5	8 37	2/2	Longitude: /	23° 47'56'W	GPS Unit:		GPS LMK #:	
Camera; N					Photo #s:		······································	
Land Use in Drain	iage Are	a (Check all tha	t apply):		*			
☐ Industrial				•	Open Space			
Ultra-Urban R	esidenti	al			Institutional			
Suburban Resi	dential		*		Other:			
☐ Commercial					Known Industries:			
Notes (e.g., origin	of outfi	all, if known):					····	
				-				
Section 2: Out	fall The	carintian	Anna and a second state of the second se		A STATE OF THE STA	idak (urintenganya pap yakan madak mada 1966 ki kiristak ni	E (PROEE CES (PA) MA COMPANSACION (SA)	and a second
LOCATIO	Take Section and Assessed	A A SANTON CONTRACTOR OF THE PROPERTY OF	RIAL	SH	APE	DIMENSIO	vs (TN.)	SUBMERGED
and a management of a control of the analysis of the second of the second	THE THE PERSON NAMED IN	☐ RCP	□ СМР	[L'Circular	[Desingle	Diameter/Dimens	ACCORDING TO THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED	In Water:
		□ PVC	☐ HDPE	☐ Eliptical	Double	12"		☐ No ☐ Partially
Closed Pipe		Steel		Вох				Fully
LEI Crosed Pilie					Triple			With Sediment:
		Other:		Other:	Other:			☐ No ☐ Partially ☐ Fully
The state of the s		☐ Concrete	and the second s	TO -	с (<u>мученнори привод сет</u> етна, хас <u>от передому манеж</u> со селов	Andrean Statement was believed that the state of the stat	SONOMAN ANNO PLONY METERS AN	
		☐ Barthen		Trapezoid		Depth:		
Open drainag	e	☐ rip-rap		Parabolic		Top Width:		
		Other:		Other:		Bottom Width:		
☐ In-Stream	MUNICIPAL PARTY	2 C1-1114	hen collecting	samples)	THE SHARE SHARE AND ARCHOUGH THE CHARLES AND A		CONTRACTOR OF THE PERSON OF TH	
Flow Present?		Yes	☐ No	Mark to the second of the second code to be second to be second.	lp to Section 5	any filonography designation of the leading of the second states and the second	Materia ir istoria and civil	n mad id de stry (deel for year) de s treet en vertreiner plant contre d'active de la contre de la contre de la co
Flow Description (If present)		☐ Trickle	☐ Moderat		A	ncontravalists realizated (speakful in Employetsechnist) (speak		and the constraint of the property of the prop
Section 3: Qua	ntitat	ive Charact	erization	т убе л басто от м аниях, од <mark>замани</mark> от уд <u>Томану у ст</u> ар до устова у	тторабияликан жүргөлүү өзүүлүн үрийл солы хол барлару төөнө	and reproductive and the second second second second second		enemental de l'appropriet de l'appropriet de l'appropriet de l'appropriet de l'appropriet de l'appropriet de l
				FIELD DATA FOR F	LOWING OUTFALL	inakin propositi na br>Propositi na propositi n		HAND DAY AND DESCRIPTION OF THE PROPERTY OF TH
P	ARAM	eter		result		UNIT	E	QUIPMENT
□Flow#1		Volume				Liter		Bottle
	<u> </u>	Time to fill				Sec		
		Flow depth				In	7	ape measure
□Flow#2		Flow width		, ,,,		Ft, In		Tape measure
		Measured length		, 11		Ft, In		Tape measure
	T	Time of travel				S		Stop watch
	Temper	***************************************				oF.		Thermometer
	pH ———					oH Units	T	est strip/Probe
	Ammo)n18 				mg/L		Test strip

Illicit Discharae Defection and Elimination: Technical Appendices

Color Turbidity Floatables Floatables Floatables Trashl Trashl Coction 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Outfall Damage Chick if Present Chick flow care in Corrosion Deposits/Stains Abnormal Vegetation Inhibited Corrosion Excessive Inhibited	Present Ose Ose	Sewage Rank Sulfide Other Other Other Otax Clear Clear Otax Green Clear Clear Green Clear Clear Hilowing and Non-ited to flow present? Corresent Correse	Sewage Rancid/sour Suffide Other: Clear Brown Green Orange Sewage (Toilet Paper, etc.) Petroleum (oil sheen) Petroleum (oil sheen) Seent Spalling, Cracsent Oily Flow Oily Flow	PESCRIPTION sid/sour Petroleum/gas rr: nn Gray Caca Severity setc.) Suds etc.) Other: Other: Towing Outfalls Yes No DESC Dinibited ve Inhibited	sleun/gas Yellow	1 - Faint 1 - Faint colors in sample bottle 1 - Slight cloudiness 1 - Few/slight; origin not obvious aint	RELATIVE SEVERITY INDEX (1-3) 2 - Easily detected 3 2 - Clearly visible in 3 2 - Cloudy 3 2 - Some, indications 3 0 origin (e.g., possible suds or oil sheen) 3 COMMENTS	(1-3) 3 - Noticeable from a distance 3 - Clearly visible in outfall flow 3 - Opaque 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
	tion Codors zation nce of two or mc Yes Yes	Odors Suds Decom Decom Oor more indica Oor more indica Ores Ores Ores	Colors Colors Corange	Floatables Other: Other: Green Other: Suspect (one or more ind If Yes, type: OB	Floatables Oil Sheen Other: Other: Other: Other: Other: If Yes, type: OBM Caulk dam	ty of 3)		

Outfall Reconnaissance Inventory Field Sheet

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Back	DESCRIPTION OF THE PERSON	TOTAL CONTRACTOR OF THE PARTY O	ners, Per de l'accomment programmes	Segrection (Application of the Application of the A			ALOSE SERVICIOS SERVICIOS DE CARACTERISTA DE CARACTERISTA DE CARACTERISTA DE CARACTERISTA DE CARACTERISTA DE C
Subwatershed:		halis Riv			Outfall ID: #3	31 Sagent Blud	#2
		2-8-11			Time (Military):	1100	
Investigators:	Spi	ringer			Form completed by:	1100 Springer	
Temperature (°F):		10	Rainfa	nll (in.): Last 24 hours:	Last 48 hours:	. 🗸	
~	so'	37'N	Longitude:	123° 47' 47' W	GPS Unit:	GPS LMK /	I:
Camera: NA					Photo #s:		
Land Use in Drain	age Are	a (Check all that	apply):		Ps.		
☐ Industrial				•	Open Space		
Ultra-Urban R	esidentia	al			☐ Institutional		
Suburban Resi	dential			•	Other:		
Commercial					Known Industries: _		
Notes (e.g., origin	of outfa	all, if known):					
							•
C 11 A O 1	. 14 3.7 -		STATE OF THE PROPERTY OF THE P	gelden it der Sterler voor het niem festelden in 24 kin filjeers zovergroepe is Sterler zog ook keligeriet.	de diese een verscheinstel van die een die een een versche en die een versche van die een versche van die een	eleptoronen yang dan 1946 kelangan beramak beramak beramak beraman dan pelak beranyak pangan pelak beranyak p	Philadelpointes Pour Parameter (Mellon, pres 1332) prophilipagnés e 102 (parén).
Section 2: Outf	·	scription MATER	nya:	ACA.	energy (n. 1884) and the contract of the contr	The same of the R. S. Alley Ab. U.S. All. T. Child. B.	
Books S./27% S. de San a Commente and Commente and Commenter and Comment	PROGRAMMENTAL	RCP	CMP	Sn/ Circular	APE [P Single	DIMENSIONS (IN.)	SUBMERGED
		□ PVC				Diameter/Dimensions:	In Water:
Secret .			HDPE	☐ Eliptical	☐ Double	, , ,	☐ Partially ☐ Fully
Closed Pipe		Steel		□ Вох	Triple		With Sediment:
		Other:		Other:	☐ Other:		☐ No ☐ Partially
Franklik Sibra Composity Magney Strandscore (1988)			Print Crim Lindau VII. Z dynapagysing Arpat Spac	Professional designations of the profession and the profession of			
		Concrete		☐ Trapezoid			
Constitution		☐ Earthen				Depth:	
│ □ Open drainage	B	☐ rip-rap		Parabolic		Top Width:	
		Other:		Other:		Bottom Width:	
[] In-Stream	DOTEST MATERIES	(applicable wh	CAN REALTHAN MANAGEMENT OF THE OWNER.	samples)	water water for the present responsible to the state of t	y y The Common Common Common (Common Common	
Flow Present?		Yes	₩ No	NAME OF THE OWNER OWNER OF THE OWNER OWNE	p to Section 5	HARMON HIPS SECTION AND EXCHANGE COMMON COMMON PORT TO PAY A MICHIGANIZATION OF INSTRUMENTAL PARTY OF THE PAR	SON TRANSPORTED THE STATE OF TH
Flow Description (If present)		☐ Trickle	☐ Moderate	e 🔲 Substantial	н Насти бургания ў Кайзбарісі ў бесі заказ сту Доўська ў не чакаў накад	verter er protest met er	dt senne ofgelogene fyr hegelyddolod y sel fel fel er er ton (dael egys geneloddio) fan
The second second second	***************************************	A CONTRACTOR OF THE PARTY OF TH	Höytte ide dad ar eng ydd ydd inw byre a tor y	. PRI	Takkan kungsang di Anjang Colonian ing menanggan di Anjang panggan	deryslande Mallisjerke Afrikale skrivinsk film Nické su ymmerylaisiana e fan maetama matama ym a y 7.0.	derbytered septemplatelas den 1913 tal olderskings in Gart ur stal in olderled hybrodistr
Section 3: Qua	ntitati	ve Character	rization	THE RESERVE THE PROPERTY OF TH	and the second analysis are the second and the seco	dady files spil 8 pers 3 person control of country is country to 2 3 years (CE) represents the control of country is control of country in the country is control of country in the country in the country is control of country in the country in the country is control of country in the country	NOTING CONTRACTOR AND ADMINISTRATION OF STREET ADMINISTRATION OF STREET AND ADMINISTRATION OF STREET AND ADMINISTRATION OF STREET ADMINISTRATION OF STREET AND ADMINISTRATION OF STREET AND ADMINISTRATION OF STREET ADMINISTRATION OF STREET AND ADMINISTRATION OF STREET AND ADMINISTRATION OF STREET AND ADMINISTRATION OF STREET ADMINISTR
lo.	* P. A SAE	- Carri Bai Saf	· · ·		LOWING OUTFALLS	····	
r.	ARAME	Volume		RESULT		· · · · · · · · · · · · · · · · · · ·	EQUIPMENT
□Flow#1		Time to fill				Liter	Bottle
		Flow depth				Sec	FD.
, .		Flow width		, ,,		***************************************	Tape measure Tape measure
∏Flow #2		Measured length		3 31			Tape measure
•		Time of travel				S	Stop watch
,	i L'empera	iture					Thermometer
	pH				p		Test strip/Probe .
	Ammo	nia				mg/L	Test strip
	en commencement	WHEN THE PROPERTY AND ADDRESS OF THE PARTY AND	1		- [- age parish

Illicit Discharge Defection and Elimination: Technical Appendices

ttion 5)	RELATIVE SEVERITY INDEX (1-3)	\square 1 – Faint \square 2 – Easily detected \square 3 – Noticeable from a distance		\square 1 – Slight cloudiness \square 2 – Cloudy \square 3 – Opaque	☐ 2 — Some, indications ☐ 3 - Some; origin clear of origin (e.g., obvious oil possible suds or oil sheen, suds, or floating sheen)	(If No. Skip to Section 6)	DESCRIPTION	Peeling Paint	□ Other:		Floatables Oil Sheen	☐ Green ☐ Other:		Suspect (one or more indicators with a severity of 3) $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$				If Yes, type: OBM Caulk dam
ing Outfalls Only $orall P_{ m No} = (fNo, Skip to Section 5)$	DESCRIPTION	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ Clear ☐ Brown ☐ Gray ☐ Green ☐ Orange ☐ Red	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	Section 5: Physical Indicators for Beth Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?		Spalling, Cracking or Chipping Corrosion	Oily Plow Line Paint	☐ Excessive ☐ Inhibited	Odors Colors Colos Colos Colors Color	. 🗌 🖂 Brown 🖂 Orange	tion	Potential (presence of two or more indicators)	м-додоском подражения подражения под	☐ Yes ☐ No	☐ Flow ☐ Pool	☐ Yes
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	CHECK # Present				C) .	Section 5: Physical Indicators for Beth Flowing and Noi Are neversal indicators that are not related to flow present?	CHECK if Present			lon loi	>>	dh	Section 6: Overall Outfall Characterization	Dotential (presenc	ollection	lab?	i from:	w trap set?
Section 4: Physica Are Any Physical In	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!	Section 5: Physica Are physical indica	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall	☑ Unlikely	Section 7: Data Collection	1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

Outfall Reconnaissance Inventory Field Sheet

Section 1: Backgr	ound Data	andy of which and all the property of the position of the position of the position of the property of the position of the posi			
Subwatershed: (Chehalis River		Outfall ID: #3	2 Sargent Blud.	#3
Today's date:	12-8-11		Time (Military):	1115	
Investigators:	Springer		Form completed by:		
Temperature (°F):	40	Rainfall (in.): Last 24 hours:	Last 48 hours:	\$	
Latitude: 46°58'	S8'N Longitu	ide: 123°47 '43 W	GPS Unit:	GPS LMK #	l:
Camera: NA		·	Photo #s:		
Land Use in Drainage	Area (Check all that apply):				
☐ Industrial		•	Open Space		
Ultra-Urban Resid	fential		☐ Institutional		
Suburban Residen	ntial		Other:		
Commercial		·	Known Industries		
Notes (e.g., origin of	outfall, if known):		·		
(109 110	,	•			
SP120 ACMAS CANADA DA PROCESSA A SEMPLE O PLANTA DE PROCESSA MAIO DE PROCESSA A PROCESSA DE PROCESSA D		等于在中国的企业中,但是在1947年,1945年,中国的企业中的企业的企业的企业的企业的企业中,中国的企业中的企业的企业的企业的企业企业。	a territorio de la companya de la c	Parance (som costs and retrieve Section such in a security costs to be a province of the best costs of the cost	a de la companya de l Companya de la companya de la compa
Section 2: Outfall			高工术 医硬叶子 对特别的代码 计设计 二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十		
LOCATION	MATERIAL	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE OWNER	IAPE	DIMENSIONS (IN.)	SUBMERGED
	□ RCP □ CN	MP Circular	Single	Diameter/Dimensions:	In Water:
	□ PVC □ HI	OPE Eliptical	☐ Double	24"	☐ No ☐ Partially
Closed Pipe	☑ Steel	☐ Box	☐ 'Triple		4 Fully
	Other:	☐ Other:	Other:		With Sediment: · □ No
	:		land to the same of the same o		Partially Fully
TELEGRAPHIC STATES OF THE STAT	Concrete	party experiment to the second condition of the condition	STOCK OF THE PROPERTY OF THE P	Martin of trade on the section of th	UMMMMM
	☐ Earthen	☐ Trapezoid		Depth:	
☐ Open drainage	1	☐ Parabolic		Top Width:	
	☐ rip-rap	Other;		Bottom Width:	
CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-C	Other:		nood y destroyled that I to I properly to Day March and Day I I Destroyled March (March 1)	and the common property and the first of the first of the common of the	
In-Stream	(applicable when coll	CONTRACTOR OF THE PROPERTY OF	ille de le l'acceptation de la production de la productio	ky fangy ngysky ay majskom e si i Statiski Mallon Calant Poliski (1935) 564 (1804) (1936) (1936) (1936) (1936)	MANAGEM HAS DESCRIBED BY A PROPERTY OF THE PRO
Flow Present?	Yes	INO If No, S	klp to Section 5	opinony mansistra o napot napodnik kanapako maniko miliku ki miliku ki miliku ki miliku ki miliku ki miliku ki	kirkalankin Microscopus Iyydas ya Mikilankin Addisi samila sahi samanan iyida sahay ka
Flow Description (If present)	☐ Trickle ☐ M	oderate Substantial			
Section 3; Quant	itative Characterizati	on	3,000		t melet en et de complète de la melet de la commercia de la co
		field data for	FLOWING OUTFALL	S	AND A SECOND AND ASSESSMENT OF THE PROPERTY OF
PAR	AMETER	RESULT		UNTT	EQUIPMENT
□Flow#1	Volume			Liter	Bottle
	Time to fill			Sec	
	Flow depth			In	Tape measure
□Flow#2	Flow width) »		Ft, In	Tape measure
	Measured length) 11		Ft, In	Tape measure
	Time of travel			S	Stop watch
Ter	nperature			°F	Thermometer
	pl·I	,		pH Units	Test strip/Probe
A	mmonia			mg/L	Test strip

Illicii Discharae Defection and Elimination; Technical Appendices

	RELATIVE SEVERITY INDEX (1-3)	\square 2 – Easily detected \square 3 – Noticeable from a distance	ors in \square 2 — Clearly wisible in \square 3 — Clearly visible in sample bottle outfall flow	udiness \square 2 – Cloudy \square 3 – Opaque	ft; origin of origin (e.g., origin (e.g., origin (e.g., origin of origin (e.g., origin (e.g., origin (e.g., origin (e.g., origin of origin sheen) sheen)		COMMENTS							severity of 3)				Can It dam
g Outfalls Only (If No, Skip to Section 5) (If No, Skip to Section 5)	DESCR	□ Sewage □ Rancid/sour □ Petroleurn/gas □ 1 - Faint □ Suifide □ Other:	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ 1 — Faint colors in ☐ Green ☐ Orange ☐ Red ☐ Other:	See severity	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ 1 — Few/slight; origin ☐ Petroleum (oil sheen) ☐ Other:	lowing and Non-Flowing Outfalls to flow present?	DESCRI	Spalling, Cracking or Chipping Deeling Paint Corrosion	□ Oily □ Flow Line □ Paint □ Other:	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ Brown ☐ Orange ☐ Green ☐ Other:	и	\square Potential (presence of two or more indicators) \square Suspect (one or more indicators with a severity of 3)	October Der der mei Eine Begenster Beginster Begenster Beginster Begenster Begenster Beginster B	Types IENo	☐ Flow ☐ Pool	Tyes Tyles Tyles Tyles Tyles
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	INDICATOR CHECK #	Odor	Color	Turbidity	Floerables -Does Not Include Tresh!	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?	INDICATOR CHECK if Present	Outali Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	Volikely Detential (presence	Section 7: Data Collection	Sample for the lab?	If yes, collected from:	Intermedition of our transact?

Outfall Reconnaissance Inventory Field Sheet

Section 1: Back	A DESCRIPTION OF STREET	E-phone) at a construction reserves the best of the page of	Application of the Comment of the Co		TUT FOR THE STATE OF THE STATE			
Subwatershed:	C	hebales 1	Rim		Outfall ID: #	33 HUNTLY	ST	meller det en en de paperen ambendantes y en palement commè mante superimenté.
Today's date:	12	-9- 11			Time (Military):			
Investigators:	Spr.	nger			Form completed by:			
Temperature (°F):		35	Rainfa	ll (in.): Last 24 hours:	Last 48 hours:	8		
Latitude: 46°	57'3	3′ル	Longitude:	123° 49'5'W	GPS Unit:		GPS LMK #:	
Camera:					Photo #s:			
Land Use in Drain	age Are	ea (Check all that	t apply):		5			
☐ Industrial				•	Open Space			
Ultra-Urban Ro	esidenti	al			☐ Institutional			
Suburban Resi	dential				Other:	· .		
Commercial					Known Industries:			
Notes (e.g., origin	of outfi	all, if known):	-,					
Cl. (1. (2. (2. (3. (4.			SEE MOOD ORGED THEODORIS HE CONSIDERATION OF	(1985年) 1985年 -	A NOOSEMAN MARKET M			BETOKENNYO KAMBO NA BELEE OLO BERNYO KATANDA INTONIO (18
Section 2: Outf	Display Color and party	MATE	DTAI	Oli	e po a transcourant com a management and a	Para a marcara	**** /*** *	CALL TO BUILD AND TO AN OF THE
LOOMITOI	An the second se	RCP	☐ CMP	Circular	APE	Diameter/Dimens	A STATE OF THE PERSON NAMED IN	SUBMERGED
		□PVC	☐ HDPE	Eliptical	Double	30'		In Water:
			∏ mbre					☐ Partially ☐ Fully
Closed Pipe		Steel		Вох	☐ Triple			With Sediment:
		Other: A	llum.	Other:	Other:			☐ No ☐ Partially
O LAND THE PERSONNEL IN PRINCIPLY PRINCIPLY AND ADDRESS OF THE PERSONNEL PRINCIPLY AND ADDRESS O			NP William de la serie de la processa de la compansión de la serie de la compansión de la compansión de la comp	A PRINCESSANDON/SEE SEESKE AND SEESCH WAS A STANDARD OF THE SEESCH AS SEESKE SEE	INCOMES AND PROPERTY OF THE PR			Fully
		Concrete		Trapezoid		Depth:		
☐ Open drainage	c	Earthen		Parabolic		Top Width:		
	-	☐ rip-rap		Other:	•			
		Other:		LI Outer.		Bottom Width:		
In-Stream	waren and the second	(applicable w	hen collecting	samples)				NAME OF THE OWNER, WHEN THE PARTY OF THE OWNER, WHEN THE OWNER, WHEN THE OWNER, WHEN THE OWNER, WHEN THE OWNER,
Flow Present?	ar valent strategy very bet	Yes	[JNo	If No, Ski	ip to Section S			
Flow Description (If present)	Z ępusztupatycz an	☐ Trickle	☐ Moderate	e	TO CONTRACT OF CON			
Section 3: Qua	ntitat	ive Characte	erization	•				
		The state of the s	***************************************	FIELD DATA FOR F	LOWING OUTFALLS	aandd gan def y fellogaannen meel gan caar faer y sadae ee'r 3d milioga. Ag A B	Secure 5.4 processings the secure of the Asia	n ny ang kalunda ang kalunda da k
P	ARAMI	ETER		result		UNIT	EC	QUIPMENT
□Flow#1		Volume				Liter		Bottle
	ļ	Time to fill				Sec		
		Flow depth				In	Т	ape measure
□Flow#2		Flow width		, ,,		Ft, In	T	ape measure
		Measured length	<u> </u>	, ,,		Ft, In		ape measure
		Time of travel				S		Stop watch
	Temper					ob.		hermometer
	pH					oH Units	Te	st strip/Probe
	Ammo	mia				mg/L		Test strip

Illicit Discharae Defection and Elimination: Technical Appendices

	RELATIVE SEVERITY INDEX (1-3)	☐ 1 — Faint ☐ 2 — Easily detected ☐ 3 — Noticeable from a distance	\square 1 – Faint colors in \square 2 – Clearly wisible in sample bottle sample bottle sample bottle	☐ 1 — Slight cloudiness ☐ 2—Cloudy ☐ 3—Opaque	☐ 2 — Some; indications ☐ 3 - Some; origin clear of origin (e.g., obvious oil possible suds or oil sheen, suds, or floating sheen)	Section 6)	COMMENTS	. Paint			Sheen er:	6.7		ore indicators with a severity of 3)				OBM Caulk dam
Us Only (If No, Skip to Section 5)	DESCRIPTION	☐ Rancid/sour ☐ Petroleum/gas ☐ 1 — Faint ☐ Other:	☐ Brown ☐ Gray ☐ Yellow ☐ 1 – Faint colors ir ☐ orange ☐ Red ☐ Other:	See severity 📗 1 — Slight cloudin	, etc.) U Suds	and Non-Flowing Outfalls resent?	DESCRI	Spalling, Cracking or Chipping Peeling Paint Corrosion	□Oily □Flow Line □ Paint □Other:	☐ Excessive ☐ Inhibited	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	☐ Brown ☐ Orange ☐ Green ☐ Other:	- Ottom and the second Committee of Committe	or more indicators) Suspect (one or more indicators with a severity of 3)		Yes [1] No	∏ Flow ☐ Pool	***************************************
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 🔲 Yes 📙		☐ Sewage	Clear Crear		Sewage (Toilet Paper	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls	CHECK if Present						Section 6: Overall Outfall Characterization	Potential (presence of two or more indicators)	lection			
Section 4: Physical Are Any Physical Indic	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Section 5: Physical	INDICATOR	Outîall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall C	U Unlikely	Section 7: Data Collection	1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

Outfall Reconnaissance Inventory Field Sheet

Section 1: Back	SECTION AND DESCRIPTION OF THE PERSONS ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT AS	September 1995 Septem	emethanese	an ville a a security front any above relevant i spanish deposits and any of the security of t		Springster or description of the second statement of the second statement of the second statement of the second	and the second second second	and the state of t
		halis River			Outfall ID: #34	4 SAGINAN)	
					Time (Military):	0900		
Investigators:	Spr	inger S			Form completed by:	Springer		
			ــــــــــــــــــــــــــــــــــــــ	all (in.): Last 24 hours:	Last 48 hours:	<i>f</i> V		
		58'N Long	itude:	1230 48' 46'N	GPS Unit:		GPS LMK #:	
Camera: A		/C0:			Photo #s:			
	age Are	a (Check all that apply	/):		*			
☐ Industrial				•	Open Space			
Ultra-Urban Ro		al			Institutional			
Suburban Resid	dential				Other:			
Commercial					Known Industries:			
Notes (e.g., origin	of outfa	all, if known):						
				-				ļ
Cardina A. Ovde)-11 Tha	a a - La Alam	Nice of Control of Partic	and any residence of the second se	ndelektifikationistasista kasillatti parake ve tahu wen tripk ilmihi studist nakusa	etyrasi rayan piyayaharaka kilometi hidaetidi (hida	THE PERSON NAMED OF THE PE	CONTRACTOR OF THE PROPERTY OF
Section 2: Outf	Mark San	MATERIAL		SHI	TO A	DIMENSIO	NE (TNI)	SUBMERGED
IN COLUMN THE PROPERTY OF THE PARTY OF THE P		CONTRACTOR OF THE PARTY OF THE	СМР	[P Circular	Single	Diameter/Dimens	The second of the second of the second	In Water:
	•		HDPE	☐ Eliptical	Double	36"		□No
TT Current Dine		Z/Steel	מוזיו ני					Partially Fully
☑ Closed Pipe				Вох	Triple			With Sediment:
		Other:	_	Other:	Other:			□ No □ Partially
EPERIAL TUREST TRAINING WAS MADERNARIAN	angenerate in	A Principle Colors Street Law on the law of	Market and the second s	en passaggaggaggaggaggaggaggaggaggaggaggagga	THE RESIDENCE OF THE PROPERTY	erne da manara voluntura accessorare dell'interiorenza	in the second	Fully
		Concrete		☐ Trapezoid		Depth:		
☐ Open drainage	2	☐ Earthen		Parabolic		Top Width:		
- P		☐ rip-rap		Other;	-	Bottom Width:		
Age of the second control of the control of the second control of the second control of the second control of	over process	[] Other:	en between kennet an	Citor,		Dottom within		
☐ In-Stream		(applicable when c	ollecting	samples)	Name of the Party	And other distances of the second sec	DECISE OCCUPANTAL PROPERTY.	to the second
Flow Present?	Bytyteddddynsin	☐ Yes	[]No	If No, Ski	ip to Section S			MAN 4 TO CONTROL OF THE PROPERTY OF THE PROPER
Flow Description (If present)		☐ Trickle ☐	Moderat	e Substantial	THE STATE OF THE S			
Section 3: Qua	ntitat	ive Characteriza	tion					
THE RESERVE OF THE PARTY OF THE		THE RESERVE THE PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I	**************************************	FIELD DATA FOR F	LOWING OUTFALLS	and quarter of the state of the	(Philosophy and Annie Philoso	No the American accommendence of the Association of the Section of
P	ARAMI	ETER		RESULT		UNIT	E	QUIPMENT
□Flow#1		Volume				Liter		Bottle
		Time to fill				Sec		
		Flow depth				In	Т	ape measure
□Flow#2	<u> </u>	Flow width	<u> </u>	, ,,		Ft, In	Т	ape measure
	[Measured length	 	11		Ft, In		ape measure
		Time of travel	-			S		Stop watch
	Tempera		 			°F		Thermometer
	pH	·	-			H Units	Te	est strip/Probe
	Ammo	nia				mg/L		Test strip

Illicit Discharae Defection and Elimination: Technical Appendices

	C. (Market A. Col) (on Col)	e mo	ii.		clear bil floating als)													Appearance of the second
	(1-3)	☐ 3 — Noticeable from a distance	3 – Clearly visible in outfall flow	3 - Opaque	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)		(0)						Guin 1997 - Martin Brown School Street School Schoo					CO COCONAL And -COCONO COCONAL COCO
	RELATIVE SEVERITY INDEX (1-3)	2 – Easily detected	2 – Clearly visible in sample bottle	☐ 2 — Cloudy	☐ 2 – Some, indications of origin (e.g., possible suds or oil sheen)		COMMENTS						The state of the s	f3) 🔲 Obvious				envionibiochemicimopposendo/Condesioner, cooppies designationisco
	REL	☐ 1 — Faint	☐ 1 — Faint colors in sample bottle	1 – Slight cloudiness	☐ 1 — F¢w/slight, origin not obvious	on 6)								Suspect (one or more indicators with a severity of 3)				M 🔲 Caulk dam
(If No, Skip to Section 5)		/gas	☐ Yellow ☐Other:			(If No, Skip to Section 6)	DESCRIPTION	oing Deeling Paint	aint Other:		☐ Floatables ☐ Oil Sheen gae ☐ Other:	☐ Green ☐ Other:		Suspect (one or more ind				If Yes, type: 🔲 OBM
No (IfNo, S.	ESCR.	id/sour 🗌 Petroleum/gas r:	n Gray ge Red	See severity	erc.) Suds	lowing Outfalls		Spalling, Cracking or Chipping Corrosion	Flow Line Paint	ve 🔲 Inhibited	☐ Colors ☐ Excessive Algae	☐ Orange		licators)	And the second of the second o	No No	[] Fool	No
Outfalls Only		☐ Sewage ☐ Rancid/sour ☐ Sulfide ☐ Other:	☐ Clear ☐ Brown ☐ Green ☐ Orange		☐ Sewage (Toilet Paper, efc.) ☐ Petroleum (oil sheen)	flowing and Non-F	sent	Spalli Corro	Alio 🗆	□ Excessive	Odors Suds	. Brown	ion	e of two or more inc		☐ Yes	☐ Flow	ZeX □
dicators for Flowi	CHECK If Present					dicators for Both I	CHECK if Present						tfall Characterizat	Potential (presence of two or more indicators)	(10)		.1	set?
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow?	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trashil	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are novsical indicators that are not related to flow present?	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	☑ Unlikely □	Section 7: Data Collection	 Sample for the lab? 	2. If yes, collected from:	3. Intermittent flow trap set?

Outfall Reconnaissance Inventory Field Sheet

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Back	AND DESCRIPTION OF THE PERSON OF	Light of the residence of the second desired the residence of the second	Commission of the Commission o		Dispression thronk among the			
Subwatershed:	Chel	halis River			Outfall ID: #35	Front 3	+.	·····································
Today's date:	12.	9-11			Time (Military):			
Investigators:		ringer			Form completed by:	Springer		
Temperature (°F):				all (in.): Last 24 hours:	Last 48 hours:	Ø		
Latitude: 46°5	891) Lon	gitude: /	23° 48' 32'W	GPS Unit:		GPS LMK #:	
Camera: NA					Photo #s:			
Land Use in Drain	age Are	a (Check all that app	ly):					
☐ Industrial					Open Space			
Ultra-Urban Ro	esidentia	al			☐ Institutional			
Suburban Resi	dential				Other:		,	
Commercial					Known Industries:			
Notes (e.g., origin	of outfa	all, if known):						
	Вшасин и С		TOTAL TELESCOPE STATE OF THE ST		en e	era sa menong ap velocal s likeraki. 16 arian a	TOTAL SERVICE STATE OF THE SER	
Section 2: Outi		THE REAL PROPERTY AND ADDRESS OF THE PARTY O		BEDES EN FORME ELDIC BETERMENT HANNAST ENGINE HANNAS CONTRACTOR	i an think i the birk community of each amount on the second Emberodistry Company on Assessing 2,544 second		The County of th	engga antawa (1980) ah disebuah antawa (1980) antawa (1980) antawa (1980) antawa (1980) antawa (1980) antawa (
LOCATION	Married Harrison or 12	MATERIA		A SINGLE BERTHANNESS FOR WELL STREET,	APE	DIMENSIO	el qualificações causantes estas ao reservad	SUBMERGED
		1	CMP	E Circular	Single	Diameter/Dimen		In Water:
			HDPE	☐ Eliptical	☐ Double	24		Partially Fully
Closed Pipe		Steel		☐ Box	Triple			
		Other:		☐ Other:	Other:			With Sediment:
								☐ Partially ☐ Fully
		Concrete			n (Austria Mining) (1999) (1990) (1990) (1990) (1990) (1990) (1990) (1990) (1990) (1990) (1990) (1990) (1990)		THE RESIDENCE OF THE PROPERTY OF THE	
		☐ Earthen		Trapezoid		Depth:		
☐ Open drainage	e	rip-rap		Parabolic Parabolic		Top Width:	_	
		Other;		Other:		Bottom Width: _		
In-Stream		(applicable when	ollecting	samples)	THE MATERIAL COURT WAS PROPERTY OF THE WAS A STATE OF THE	AND PROPERTY AND P		
Flow Present?		☐ Yes	[] No	MATERIAL PROPERTY OF THE PROPE	lp to Section S	CONTRACTOR LOCAL DRIVE AND ASSESSMENT	THE RESERVE AND THE RESERVE AND THE	
Flow Description (If present)		☐ Trickle ☐	Moderat		A CONTRACTOR OF THE STATE OF TH	miyyideki(Chichida)o(Ip) (eyminin "Chiqiqadis di Adeyye)		ndriadicus vagas i y nie jakeriničke prilade žistu centrus v za vzeri Ulizani opynim poka edzin te
Section 3: Qua	ntitati	ive Characteriz	ition			nicken som for standing of the design of the standing of the standing of the standing of the standing of the s The standing of the standing o	4 7 Marie VIII (1 Marie VIII (and the state of t
	****	nimbel in	· · · · ·		LOWING OUTFALLS			
P	ARAMI			RESULT		nutt	E	QUIPMENT.
□Flow#1		Volume	_			Liter	**************************************	Bottle
		Time to fill Flow depth				Sec		
:	<u> </u>	Flow width		3 33		In		ape measure
□Flow #2		Measured length	+==	3 33		Ft, In		ape measure
•	<u> </u>	Time of travel				Ft, In		ape measure Stop watch
,	L Tempera	ووادون ومستحداها ومود ويشاد سمو زنشر مساطات فارس	1			oF		hermometer
	pH				n	FI Units		est strip/Probe
	Ammo	nia				mg/L		Test strip
Demonstration of the second	CONTROL PURCHAN	THE RESERVE THE PROPERTY OF THE PARTY OF THE	AND THE REAL PROPERTY AND ADDRESS OF THE PARTY	THE THE PERSONNEL WAS ARRESTED BY TH		Carle parties of the San State of the Sa	Walter Report and Journal of the Park State and	

Outfall Reconnaissance Inventory Field Sheet

	3)	3 – Noticeable from a distance	3 – Clearly visible in outfall flow] 3 — Opaque	3 - Some, origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)									Cut and Cut an				
	RELATIVE SEVERITY INDEX (1-3)	2 – Easily detected	visible in	-	☐ 2 — Some, indications of origin (e.g., possible suds or oil sheen)	-	COMMENTS		NO. AND THE PROPERTY OF THE PR			Programme Charles Communication and Charles Charles (Charles Charles C		f3) 🗌 Obvious				Depresentable implement Country (No. 1991) immediately (No. 1991) immediately Con
	RELA	□ 1 – Faint	☐ 1 — Faint colors in sample bottle	☐ 1 — Slight cloudiness	☐ 1 — Few/slight; origin not obvious	tion 6)		1,	Company of the Company		i.		and the second s	Suspect (one or more indicators with a severity of 3))BM Caulk dam
falls Only Yes II No (If No, Skip to Section 5)	DESCRIPTION	ge □ Rancid/sour □ Petroleurn/gas e □ □ Other:	☐ Brown ☐ Gray ☐ Yellow ☐ Orange ☐ Red ☐ Other:	See severity	☐ Sewage (Toilet Paper, efc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls	DESCRI	Spalling, Cracking or Chipping Pealing Paint Corrosion	☐ ☐ ○ ☐ ☐ Flow Line ☐ Paint ☐ Other:	Excessive Inhibited	Odors Colors Floatables Olil Sheen Suds Excessive Algae	☐ Brown ☐ Orange ☐ Green ☐ Other:	and Department of the Common and the			Tyes [Wivo	☐ Flow ☐ Pool	☐ Yes ☐ ☐ No If Yes, type: ☐ OBM
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Ves	CHECK if Present	☐ Sewage ☐ Sewage	Clear Creen		Sewage	Section 5: Physical Indicators for Both Flowing and Noi	CHECK if Present						fall Characterization	Potential (presence of two or more indicators)	Oi			
Section 4: Physical Ind Are Any Physical Indicator	INDICATOR	Odor	Color	Turbidity	Floatables -Does Not Include Trash!!	Section 5: Physical Ind	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Outfall Characterization	Unlikely	Section 7: Data Collection	1. Sample for the lab?		3. Intermittent flow trap set?

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Backs	ground	Data						<u> </u>
Subwatershed:	Cheh	alis River			Outfall ID:	6 Shannon	Slough	
Today's date:	12-9				Time (Military):	0930		
Investigators:	Spring	er			Form completed by:	Springer		
Temperature (°F):	35		L	II (in.): Last 24 hours:	β Last 48 hours:	0		
Latitude: 46° 5	58' 26	「ル Long	itude:	123° 47'42'W	GPS Unit:		GPS LMK #:	
Camera: NA					Photo #s:			
Land Use in Draina	age Area ((Check all that apply	y) :		***			
☐ Industrial				•	Open Space			
Ultra-Urban Re	sidential				Institutional			
Suburban Resid	lential				Other:	· .		
☐ Commercial					Known Industries: _			
Notes (e.g., origin	of outfall	, if known):						
		<u></u>	·····		and the second of the second o			
Section 2: Outfa						T _a_		
LOCATION		MATERIAI		SHA		DIMENSIO		SUBMERGED
		-	CMP	Circular	Single	Diameter/Dimen		In Water:
	[{	□ PVC □	HDPE	☐ Eliptical	☐ Double	54		☐ Partially ☐ Fully
☑ Closed Pipe][Steel		☐ Box	☐ Triple			With Sediment:
	[Other:		☐ Other:	☐ Other:			□ No
	1							☐ Partially ☐ Fully
	[Concrete						
	1	Earthen		Trapezoid		Depth:		
Open drainage		rip-rap		Parabolic		Top Width:		
		Other:		☐ Other:		Bottom Width:		
☐ In-Stream		(applicable when c	ollecting	comples)				<u> </u>
Flow Present?		Yes	No		p to Section 5	. many sandana sa		
Flow Description					р ю весион з			
(If present)		Trickle	Moderate	e Substantial				
Section 3: Quai	ntitativ	a Charactariza	tion					
Section 5. Quan	HUILALIY	e Characteriza	11011	FIELD DATA FOR F	LOWING OUTFALLS		4. Y	
P/	ARAMET	ER	T	RESULT		UNIT	E	QUIPMENT
		Volume	1	- 14 (184-14 DAM)		Liter		Bottle
□Flow#1		Time to fill				Sec		
		Flow depth	1			In	Т	ape measure
□Flow#2		Flow width	T	, ,,		Ft, In	T	ape measure
Late 10 W #Z	М	easured length)))		Ft, In	Т	ape measure
	T	ime of travel				S		Stop watch
7	l'emperati	ıre				٥F	Г	hermometer
	pН	-			p	H Units	Те	est strip/Probe
	Ammoni	ia				mg/L		Test strip

Outfall Reconnaissance Inventory Field Sheet

Are Any Physical Indicators Present in the flow? CHECK if	TS Present in the f	flow? Te	Š.	0	(If No, Skip to Section 5)	REI	RELATIVE SEVERITY INDEX (1-3)	(1-3)
INDICATOR	Present			DESCRIP LON				
Odor		Sewage	☐ Rancid/s	☐ Rancid/sour ☐ Petroleum/gas ☐ Other:	m/gas	🗌 1 — Faint	☐ 2 — Easily detected	3 – Noticeable from a distance
Color		Clear	Brown	Gray	Yellow Other:	1 – Faint colors in sample bottie	2 – Clearly visible in sample bottle	☐ 3 — Clearly visible in outfall flow
Thebidity				See severity		☐ 1 — Slight cloudiness	2 - Cloudy	☐ 3 — Opaque
Floatables -Does Not Include Trashil		Sewage (Sewage (Toilet Paper, etc.)			☐ 1 — Few/slight; origin not obvious	2 – Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls	dicators for Bol	th Flowing ?	and Non-Flo	wing Outfalls	s (If No, Skip to Section 6)	tion 6)	-	
Are physical indicators that are not related to now present INDICATOR CHECK if Present	CHECK if Present	Present	10000)ESCR.		COMMENTS	S
Outfall Damage			Spalling Corrosic	Spalling, Cracking or Chipping Corrosion	ipping 🔲 Peeling Paint	-		
Deposits/Stains]		Flow Line	☐ Paint ☐ Other:			
Abnormal Vegetation		_	☐ Excessive	☐ Inhibited				
Poor pool quality			Odors Suds	☐ Colors ☐ ☐ Excessive Algae	☐ Floatables ☐ Oil Sheen Algae ☐ Other:	ч		
Pipe benthic growth]	☐ Brown	☐ Orange	☐ Green ☐ Other:			
Section 6: Overall Outfall Characterization	tfall Character	ization		J.S. MY Co. Co.				
☐ Unlikely	Potential (presence of two or more indicators)	sence of two	or more indi-	cators)	Suspect (one or more i	Suspect (one or more indicators with a severity of 3)	of3) 📋 Obvious	
Section 7: Data Collection	tion							
1. Sample for the lab?			☐ Yes	oN∕D				
2. If yes, collected from:	n:		Flow	Pool	1]		
3. Intermittent flow trap set?	p set?		☐ Yes	on [1]	If Yes, type:	OBM Caulk dam		

CONTRACTOR OF STREET,	ground Data	And the state of t	THE COLORS OF THE PARTY OF THE	Paragraph and construction of the construction	ma 4 king din manakan 11 kipani di 17 min di Simori din di		THE PERSON OF TH
Subwatershed:	Chehalis Riv	ier		Outfall ID: 7	#37 Wood	S+.	
Today's date:				Time (Military):			
Investigators:	Springer			Form completed by	: Springer		
Temperature (°F):	35	Rainfa	all (in.): Last 24 hours:	Last 48 hours:	0		
Latitude: 46	5°58'22'N	Longitude:	123° 46' 59' W	GPS Unit:		GPS LMK #:	
Camera: AA	· · · · · · · · · · · · · · · · · · ·			Photo #s:			,
Land Use in Drain	age Area (Check all that	apply):					
☐ Industrial	•			Open Space			
Ultra-Urban Ro	esidential			☐ Institutional			
Suburban Resi	dential			Other:	-		
Commercial			·				-
Notes (e.g., origin	of outfall, if known):						
Section 2: Out	all Description	sizan Оду дове ибликанда од 2	and and commission strategy and constant they have constitute as a security of the section of the security of	AND THE RESIDENCE OF THE PARTY	rimitatoju. Nor jela jej jugas jej jako ure ni torsanski pletikoš l <u>st</u> uosa	annen mempilikken (4 m/an-konyansiska)	dattivi konflivirkoon musika ili uli tavat napati yilkele umaldada oy autoole
LOCATION	V MATEI	RIAL	SH	APE	DIMENSIC	NS (IN.)	SUBMERGED
The second of th	☐ RCP	□СМР	[Circular	Single	Diameter/Dimens	sions:	In Water:
	□ PVC	☐ HDPE	☐ Eliptical	☐ Double	18"		☐ No ☐ Partially
Closed Pipe	☐ Steel		☐ Box	Triple			☐ Fally
	Other:		Other:	Other:			With Sediment:
							Partially Fully
Trackin in province of the street province of the street o	☐ Concrete	an an ann bha da ca ca gha an ann an a		A DAMES AND THE PROPERTY OF THE PARTY OF THE	CALLY MAN AND AND AND AND AND AND AND AND AND A	and and the state of the state	
	Earthen		Trapezoid		Depth:		
☐ Open drainage	e 📗 rip-rap		Parabolic		Top Width:	****	
	Other:		Other:		Bottom Width: _		
In-Stream	(applicable wh	on collecting	eam Nac)	r FRESCUENT (NEST VICTORIA) TO STATE OF THE	and the second s		
Flow Present?	Yes	[]No	TOWN THE PROPERTY OF THE PROPE	ip to Section 5	Overglabater regra dy radystaal after de Statist AF B Tatist Aced Statistics	HWAG THE PARTY OF	THE PARTY WAS A STANDARD CONTRACTOR TO THE PARTY OF THE P
Flow Description (If present)	THE PERSON NAMED IN COLUMN 2 AND POST OF THE PERSON NAMED IN COLUMN 2 AND POST OF THE PERSON NAMED IN COLUMN 2	☐ Moderat	THE THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	47 го эзсило период у година	sseems are little to wish stand, speed at 6 Emily Schille all before		HALANGEDI EGO 1-ak-34-799-ERYPTÄT ZYGGEOOF ZYZFAYSERSESSYTÄTERÄS
Section 3: Qua	ntitative Characte	rization	e della della fini del Con con con con con con con con con con c	artisen framer dan kecamatan kerden kerden permanan kerden perpanan kerden perpanan kerden perpanan kerden per Kerden kerden kerden kerden kerden kerden kerden kerden kerden kerden permanan kerden berken berken beste best	typerskier provedet festerendere sie deutschen bir in hiervert spirituit erweiseliegen. Die gesterende gesteren deutsche deutsche deutsche deutsche deutsche deutsche deutsche deutsche deutsche deutsch		の は一般ない (1955年) 1955年 - 日本 (1955年)
		· · · · ·	FIELD DATA FOR I	LOWING OUTFALL	S		· · · · · · · · · · · · · · · · · · ·
P	ARAMETER		RESULT		UNIT	EC	SATEMENT.
□Flow#I	Volume				Liter		Bottle
	Time to fill				Sec	~	
	Flow depth Flow width		; ;;		In	····	ape measure
□Flow #2	Measured length		, , , , , , , , , , , , , , , , , , , ,		Ft, In		ape measure
	Time of travel				Ft, In		ape measure
	Temperature				S		Stop watch
	pH				°F pH Units		hermometer st strip/Probe
	Ammonia				mg/L	1 6	Test strip
Contract of the Contract of th	THE RESIDENCE OF THE PARTY OF T	, , , , , , , , , , , , , , , , , , ,	THE CONTRACTOR OF THE PARTY STATE STATE OF THE STATE OF T		· O · · ·	COLUMN TO A STATE OF THE PARTY	

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Section 7: Data Collection			
 Sample for the lab? 	☐ Yes	o _N o	
2. If yes, collected from:	Flow	D Pool	
3. Intermittent flow trap set?	☐ Yes	on [If Yes, type: OBM Caulk dam
		The state of the s	

Obvious

Suspect (one or more indicators with a severity of 3)

Potential (presence of two or more indicators)

☐ Unlikely

Section 6: Overall Outfall Characterization

Pipe benthic growth

Poor pool quality

Oil Sheen Other:

☐ Colors ☐ Floatables ☐ Excessive Algae

Odors Suds

Other:

Green

Orange

☐ Brown

3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

of origin (e.g., possible suds or oil sheen)

☐ 1 – Few/slight; origin not obvious

Other:

☐ Suds

Sewage (Toilet Paper, etc.)

Petroleum (oil sheen)

Floatables -Does Not Include Trash!!

See severity

☐ 2 – Some; indications

☐ 2 - Cloudy

☐ 1 — Slight cloudiness

1 – Faint colors in sample bottle

☐ Yellow Other

Caray ☐ Red

☐ Brown Other:

Sulfide Sewage

Odor

☐ Orange

Green ☐ Clear

Color

Turbidity

COMMENTS

(If No, Skip to Section 6)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present?

Are physical indicators that are not related to flow present?

CHECK if Present

INDICATOR

Peeling Paint

Spalling, Cracking or Chipping Corrosion

 $\Box\Box$

Outfall Damage

DESCRIPTION

Other

Paint

☐ Flow Line

Abnormal Vegetation

Deposits/Stains

Inhibited

☐ Excessive

☐ 3 — Noticeable from a distance

2 - Easily detected

□ 1 – Faint

Rancid/sour Petroleum/gas

DESCRIPTION

RELATIVE SEVERITY INDEX (1-3)

Outfall Reconnaissance Inventory Field Sheet

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow?

Ves

CHECK if Present

INDICATOR

☐ 3 — Clearly visible in outfall flow

☐ 2—Clearly visible in sample bottle

3 - Opaque

Section 1: Back	CARLES AND DESCRIPTION OF THE PERSON OF THE	SALL CONTROL TO THE PROPERTY OF MANY CONTROL TO THE	STATE OF THE PERSON	and the constraint of the contract of the constraint and the contract of the constraint of the contract of the		THE RESIDENCE OF THE PROPERTY	ADD THE A ROCK OF TOWN OF THE PROPERTY.
Subwatershed:	Che	halis Rive			Outfall ID: 井。	38 Decatur St.	Committee of the second
		_			Time (Military):	0945	
Investigators:	م ک	ringer			Form completed by:		
Temperature (°F):	3	5	Rainfa	ıll (in.): Last 24 hours:	💋 Last 48 hours:	Ø	
	58'9	Long	gitude:	23° 46'54'W	GPS Unit:	GPS LMK	#:
Camera: NA					Photo #s:		
Land Use in Drain	age Area	a (Check all that appl	y):		· ·		
☐ Industrial				•	Open Space		
Ultra-Urban Re	esidentia	ıl			☐ Institutional		
Suburban Resid	dential				Other:		-
☐ Commercial				•			···
Notes (e.g., origin	of outfa	II, if known):			This will make the		
(3) - 0		,					
CANADA CONTRACTOR AND	Ош 5д Жоро-(47к.П	THE STREET COMMENTS OF THE REAL PROPERTY OF THE STREET, THE STREET	orientales de la constitue de	an kanda karanda and dak kadan da siya da kanan sa tan diga da da da siya da	Hermotorusem ender alta esta Mattheway (List and o	a of framework of En-Australian Strategics and Strategics of Strategics and Strat	Methylta Tonyattyou ose goodentar pen nillä new tronyate pappy
Section 2: Outf	all De	scription					
LOCATION		MATERIA		SH	APE	dimensions (in.)	SUBMERGED
		□ RCP □	СМР	[Circular	Single	Diameter/Dimensions;	In Water:
		□ PVC □	HDPE	☐ Eliptical	☐ Double	60"	☐ No ☐ Partially
Closed Pipe	·	□ Steel		☐ Box	Triple		[4] Fully
		Other:		Other:	Other:		With Sediment:
i							☐ Partially ☐ Fully
Grant i modinina zazotra, y zakonegy largomoka etkorpi dia		Concrete	DATE OF THE PARTY	er personalistististististististististististististi	A THE RESIDENCE OF THE PROPERTY OF THE PROPERT	etter an er un er	
		☐ Barthen		☐ Trapezoid		Depth:	
Open drainage	e	☐ rip-rap		Parabolic		Top Width:	
				Other:		Bottom Width:	
	RAY LINNA ATLE	Other:		NEW TOTAL CONTROL OF THE PROPERTY OF THE PROPE	yricykska tast oʻstojokykoristiki kodorili yetodisek yortiy/estop y	anny and the Commence of the party of the state of the st	vana andre kalinist kolisi ini ekolosi intolaisia kalinisia kalinisia kalinisia kalinisia kalinisia kalinisia
In-Stream	·	(applicable when	STATE OF THE PARTY	SECURITION OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF		ng aming ng styatesini dama 9 setsikaa and 18 meest ne amin'n hikke mena 24 ka 19 meestaan e	randocción transferioris succesivas interioris e randocurante e construinte este succesiva e e construinte e c
Flow Present?	EV #20TV 2018A YANDA	Yes	[] No) If No, Sk	lp to Section 5	ANDRY B NEWSTERN CONTRACTOR CONTRACTOR CONTRACTOR AND STATE CONTRACTOR CONTRA	Alakaiteen vakias vara sijakas irakkin vää siitära vara nilläysin väätäisissa
Flow Description (If present)		☐ Trickle	Modera	te Substantial	·····································	esséppekken eskonyezet achai partatrickénya. Nakadakakakakakakakakakakakakakakakakaka	egy Roberton karantara karantara karantara karantara karantara karantara karantara karantara karantara karantar
Section 3: Qua	ntitati	ive Characteriz	ition				
A TO SERVICE OF THE PERSON OF		THE PERSON NAMED OF THE PE	Dali malaja yan da Egyayaya a Pingsi	FIELD DATA FOR I	LOWING OUTFALL	5	yddyngol yn cymaleg haellar araban ar hydr y cyfrifiai
P	ARAMI	ETER		RESULT		UNIT	EQUIPMENT.
□Flow#I		Volume				Liter	Bottle
		Time to fill				Sec	
		Flow depth				In	Tape measure
□Flow#2		Flow width		33		Ft, In	Tape measure
		Measured length)))		Ft, In	Tape measure
		Time of travel				S	Stop watch
	Temper		_			ok.	Thermometer
	pI-I					pH Units	Test strip/Probe
	Ammo	onia				mg/L	Test strip

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

INDICATOR	CHECK IF		DESCRIPTION	RE	RELATIVE SEVERITY INDEX (1-3)	(1-3)
Odor		Sewage	☐ Rancid'sour ☐ Petroleum/gas ☐ Other	1 - Faint	2 – Easily detected	☐ 3 — Noticeable from a distance
		Clear	Brown Gray L'Yellow	1 - Faint colors in	2 – Clearly visible in	3 – Clearly visible in outfall flow
Color		Green	Orange Red Other:	sample bottle	Sample conne	
Turbidity			See severity	☐ 1 — Slight cloudiness	2 - Cloudy	3 - Opaque
Floatables Does Not Include Trash!		Sewage (Toilet Paper	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	🔲 1 – Few/slight: origin not obvious	2 – Some, indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (e.g., obvious oil shen, suds, or floating sanitary materials)
Section 5: Physical in	dicators for Bot	th Flowing at	Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls (HNo. Skip to Section 6)	ction 6)		
Are pnysical indicators that are not related to now present.	CHECK IT Present	Present	DESCR		COMMENTS	Ŋ
Outfall Damage			Spalling, Cracking or Chipping Paint Corrosion	nt	And the second of the second o	
Deposits/Stains			□ Oily □ Flow Line □ Paint □ Other:			
Abnormal Vegetation			☐ Excessive ☐ Inhibited	and the second s	AND REPRESENTATION OF THE PROPERTY OF THE PROP	
Poor pool quality		And the state of t	☐ Odors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	ue	A STATE OF THE PARTY OF THE PAR	
Pipe benthic growth		NAME OF THE PROPERTY OF THE PR	☐ Brown ☐ Orange ☐ Green ☐ Other:		er en er	
Section 6: Overall Outfall Characterization	tfall Characteri	ization				
☐ Unlikely □	Potential (preso	ence of two or	Detential (presence of two or more indicators)	indicators with a severity c	of3)	
Section 7: Data Collection	TON	New Japan Confection C				One of the second of the secon
1. Sample for the lab?			Tyes Francisco			
	11		☐ Flow ☐ Pool			
3. Intermittent flow trap set?	set?	☐ Yes	区No If Yes, type:	☐ OBM ☐ Caulk dam	ANT PROCESSION OF COMMAND AND AND AND AND AND AND AND AND AND	
1	- Control of the Cont	- The second sec				

RELATIVE SEVERITY INDEX (1-3)

Outfall Reconnaissance Inventory Field Sheet

(If No, Skip to Section 5)

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? \square Yes \square No

Section 1: Back	groui	id Data					
Subwatershed:	Che	halis Rive	<u> </u>		Outfall ID: #	39 Taylor St.	
Today's date:					Time (Military):	1000	
Investigators:	Sp	ringur			Form completed by:		
Temperature (°F):	1	10	Rainf	all (in.): Last 24 hours:	Ø Last 48 hours:	Springer	
Latitude: 46°4	57 40	1' N Lo	ngitude:	123° 46' 43' W	GPS Unit:	GPS LMK	
Camera: \mathcal{O}_{ℓ}					Photo #s:		
Land Use in Drain	age Are	ea (Check all that ap	ply):				
☐ Industrial					Open Space		
Ultra-Urban R	esidenti	al			[] Institutional		
Suburban Resi	dential				Other:		
☐ Commercial				•			
Notes (e.g., origin	of outf	all if known):			Known Industries:		
(0.8., 0.18	or out	, 12 1010 1111).					
ACCURACY CONTRACTOR AND STORES	Particular Company	and the second seco	·	THE STATE OF THE S	and the state of the	CONTRACTOR OF STATE AND A STATE OF THE STATE	here selected and the selection of the s
Section 2: Out	fall De	ATAMOMIA NATIONAL PARTICIONAL		CALKAT PLOBATION OF THE STATE O			
LOCATION	ý ·	MATERI	AL.	SH	/bE	DIMENSIONS (IN.)	SUBMERGED
		□ RCP [] CMP	[2 Circular	[L] Single	Diameter/Dimensions:	In Water:
		□ PVC [] HDPE	☐ Eliptical	☐ Double	12"	☐ No ☐ Partially
Closed Pipe		Steel		☐ Box	Triple		☐ Fally
		Other:		Other:	Other:		With Sediment:
							Partially
demonstrational security response fraction	to by the property of the second	Concrete	THE CONSTRUCTION OF THE PERSON		COLUMN CONTROL TO COLUMN CONTROL PROPERTY CONTROL CONT		☐ Fully
		☐ Earthen		☐ Trapezoid		Depth:	
Open drainag	e	☐ rip-rap		☐ Parabolic		Top Width:	
		Other:		Other:		Bottom Width:	
☐ In-Stream	Delana are o		- Transaction and the second des	THE RESIDENCE OF THE PROPERTY	Employ terrory control of the contro	and the state of t	
Flow Present?		(applicable wher	SCHOOL SECTION AND PROPERTY.	STORY CONTROL OF THE PROPERTY	ANTE ENTREMENT COSTS SERVICES CONTRACTOR NAME OF THE SERVICE COSTS OF TH	A Legicia de Antonio es para españo por esta esta españo de la companya de la companya de la companya de la comp	AMERICAN MATANCIAN MATANCIAN CONTRACTOR AND CONTRAC
Flow Present?	epowski rom	L1 YGS	[] No	If No. Ski	p to Section 5	en and high extension of the control and placement of the control	Approximately of the construction is a substitute of the construction of the construct
(If present)		Trickle [] Moderat	e Substantial			
Section 3: Qua	ntitat	ina Charactari		a dely colleging of extra figure character extra local service sent or	CONTRACTOR OF THE PROPERTY OF	en e	PARTY AND PROPERTY AND PROPERTY OF PERSONS AND PROPERTY (AND PROPERTY PARTY AND PROPERTY PARTY PAR
Doction 5, Qua	HILICAL.	TYC CHAIACLETT	Callon	FIELD DATA FOR F	MISTRIA ALIPPORTI	and the first temperature and the second state of the second state of the second secon	X41114110 07 PAGE LOCK CONSIDERATION OF THE PROPERTY OF THE PR
P	ARAMI	eter	-	RESULT			
		Volume		KEGOEI		UNTT Liter	EQUIPMENT.
□Flow#1		Time to fill				Sec	Bottle
		Flow depth				In	Таре теазиге
□Flow#2		Flow width		, ,,		Ft, In	Tape measure
		Measured length		3 31		Ft, In	Tape measure
		Time of travel				S	Stop watch
	Tempera	ature				°F.	Thermometer
	pH				ŗ	II Units	Test strip/Probe
Wheeler	Ammo	mia				mg/L	Test strip

Outfall Reconnaissance Inventory Field Sheet

	INDEX (1-3)	ited 3 – Noticeable from a distance	hle in 3 – Clearly visible in		3 – Opaque				COMMENTS			N. S. D. Stemal, see and see and see all see a	Chapter (selection) in the formula of the selection of th		New Spiles is present (vious				уман анта-деген (Пуучуман анта-дей Окуайнай уман да аймай Кайдайнай Маланай Кайдайнай Сайдайнай Сайдайнай Сайд
	RELATIVE SEVERITY INDEX (1-3)	2 – Easily detected	in a _ Clearly visible in	sample bottle	☐ 2 — Cloudy	2 - Some; indications	of origin (e.g., possible suds or oil sheen)		8	Miller Charles	and delivery and the second			page-massiy-story-sum-sussimit codeliy-mas-(mi-Codellis			yof3) 🔲 Obvious				
	X	□ 1 – Faint		1 – Farnt colors in sample bottle	1 - Slight cloudiness		1 – Few/slight, origin not obvious	ntion 6)	(0.7)0130		nt			LO			Suspect (one or more indicators with a severity of 3)		And the second s		OBM Caulk dam
(f No, Skip to Section 5)	P&C	uin/gas		Yellow Other:				Is (FW) Stin to Section 6)		DESCRIPTION	nipping 🔲 Peeling Paint	Paint Other:		☐ Floatables ☐ Oil Sheen Algae ☐ Other:	Green Other.		Suspect (one or more	Chairmann an taonach a	ed de la complementation de la complementati		If Yes, type:
J.No	DESCRIPTION	Rancid/sour Peroleum/gas		☐ Brown ☐ Gray ☐ Orange ☐ Red	0		Sewage (Toilet Paper, etc.) Suds	1 5	X es [Spalling Cracking or Chipping Corrosion	Oily Plow Line	☐ Excessive ☐ Inhibited	Odors Colors Cours Colors Colors	☐ Brown ☐ Orange		cators)	Decorporation: Committee of Com	Yes Wo	Flow Pool	V.S.
Section 4: Physical Indicators for Flowing Outfalls Only A_{Te} A_{TV} Physical Indicators Present in the flow? \square Yes \square	is in		Sulfide	d Ge			Sewage (Toilet Paper	Section 5: Physical Indicators for Beth Flowing and Non-Fl	Are physical indicators that are not related to flow present?	CHECK if Present		The Control of the Co				1	Ountain Character Transm Potential (presence of two or more indi	A-Chirchest Charles and Landau American State (All Charles and			New Y
Section 4: Physical Indicators for Flowing Are Ary Physical Indicators Present in the flow?	CHECK IF						nde	sical Indicators f	dicators that are n		1age	inc	etation	ality	rowth		Section 6: Overall Outrall Character tractor [7 [Injikelv	Management Constitution Condensational (c) in Management Constitution Condensational (c) in Management Constitution Condensation Conden	a Collection	oted from:	7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Section 4: Phys	INDICATOR			Color		Turbidity	Floatables -Does Not Include Trash!	Section 5: Phy:	Are physical in	INDICATOR	Outfall Damage	Dancitc/Stains	Abnormal Vesetation	Poor pool quality	Disappendia		Section 6: Ove		Section 7: Data Collection	Sample for me fact True collected from:	1

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

Section 1: Backs	groun	d Data	Mary Same Service				-	
Subwatershed:	Che	chalis River	y"		Outfall ID: #41	o Lee	St.	CONTRACTOR OF THE PROPERTY OF
Today's date:	12-	9-11			Time (Military):			
Investigators:	Spr	inger			Form completed by:		-	
remperature (°F):	-4	0		ll (in.): Last 24 hours:	Last 48 hours:	d'		
Latitude: 46	<u> 57'-</u>	49'N Longit	ude: /	23°46' 43' W	GPS Unit:		GPS LMK #:	
Camera:					Photo #s:			
Land Use in Draina	age Area	a (Check all that apply)	:		Ag			
☐ Industrial				•	Open Space			
Ultra-Urban Re	sidentia	al			☐ Institutional			
Suburban Resid	lential				Other:			
☐ Commercial					Known Industries:			
Notes (e.g., origin	of outfa	ıll, if known):						
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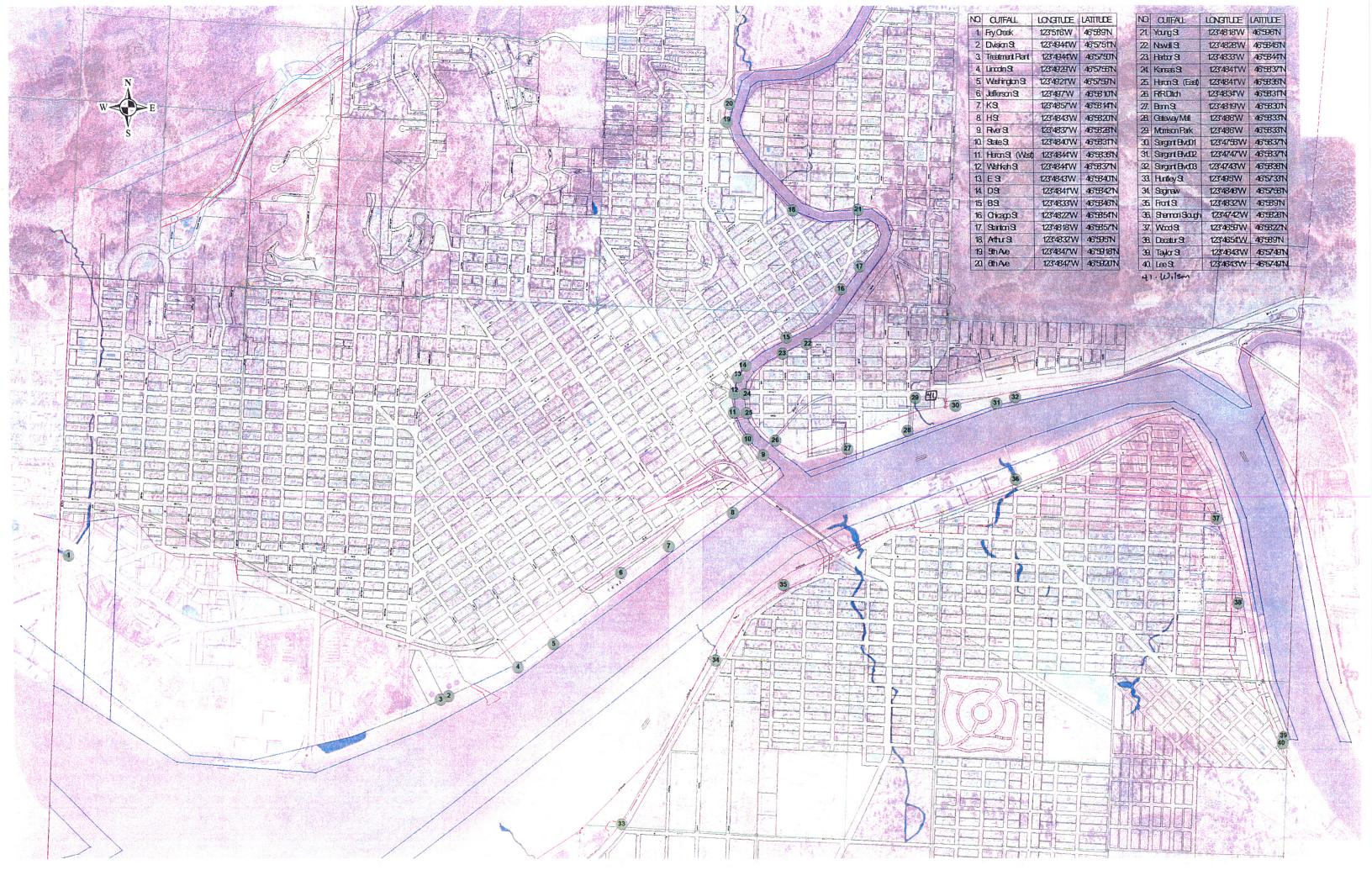
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Outfall Reconnaissance Inventory Field Sheet

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Outfall Reconnaissance Inventory Field Sheet



Appendix D - Illicit Discharge Hotline Incident Tracking Sheet

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Appendix E – Public Education & Outreach

Public Education & Outreach Schedule

2011 - Public Education & Outreach

IDDE Training - 2/2011 (complete)

- Target Audience Street Department Staff
- EXCAL Training Videos
 - o Municipal SWPP DVD "Storm Watch"
 - o SWPP for Construction Sites "Ground Control"

Stormwater community research report – 4/2011 (complete)

- Target Audience General Public
- Create baseline of storm water knowledge

CESCL Training – 6/15/2011 (complete)

• Target Audience – Public Works managers, maintenance supervisors and lead men

4th of July – Splash Festival – 7/4/2011 (complete)

- Target Audience General Public
- Trout fishing tank for 6 hours with/500 trout
- Stormwater booth
 - Distributed 800 Stormwater brochures
 - o Distributed 800 pens with stormwater logo and spill hotline phone # imprinted on them.
 - o Distributed 500 Frisbees with stormwater logo and spill hotline phone # imprinted on them
 - Distributed 300 re-useable grocery bags with stormwater logo and spill hotline phone # imprinted on them.
 - o Hourly drawing for a fishing pole or other prizes to keep people coming back to booth.

Catch Basin Buttons – summer and early fall 2011 (Ongoing)

- Target Audience General Public
- Permanently Install catch basin buttons marked with "No Dumping * Drains To Stream"
- Installed 700 buttons in 2011

Chehalis River Watershed Festival – 9/17/2011 (complete)

- Target Audience General Public
- Catch Basin scavenger hunt for children and parents
- Stormwater booth
 - o Distributed 800 Stormwater brochures
 - o Distributed 300 pens with stormwater logo and spill hotline phone # imprinted on them.
 - Distributed 200 re-useable grocery bags with stormwater logo and spill hotline phone # imprinted on them.

2012 - Public Education & Outreach

IDDE Training – 1/30/2011 (Pending)

- Target Audience Public Works Staff
- EXCAL Training Videos
 - Municipal SWPP DVD "Storm Watch"
 - o SWPP for Construction Sites "Ground Control"
- SWPPP Training
- Combined w/ quarterly Safety Meeting

Stormwater Informational Letter – 2/2012 (Pending)

- Target Audience General Public
- Added to January 2012 utility bill
- Bill Stuffer
 - o IDDE information
 - o Grays Harbor Stream Team information

Operation & Maintenance Training - 4/2011 (TBD)

- Target Audience Public Works Staff
- O&M Training
- SWPPP Training
- Combined w/ quarterly Safety Meeting

Elementary School Stormwater education TBD (Spring 2012)

- Target Audience City of Aberdeen 4th and 5th graders
- Cooperative effort with Grays Harbor Stream team to develop education program

Stormwater Informational Letter – 6/2012 (Pending)

- Target Audience General Public
- Added to May 2012 utility bill
- Bill Stuffer
 - o IDDE information
 - o Grays Harbor Stream Team information
 - o TBD

Catch Basin Buttons – summer 2012

- Target Audience General Public
- Permanently Install catch basin buttons marked with "No Dumping * Drains To Stream"
- Install remaining 250+ buttons in 2012

4th of July - Splash Festival - 7/4/2012

- Target Audience General Public
- Stormwater Booth
 - o Educate public on IDDE
 - o Distribute stormwater educational merchandise

Operation & Maintenance Training – 7/2011 (TBD)

- Target Audience Public Works Staff
- O&M Training
- SWPPP Training
- Combined w/ quarterly Safety Meeting

Fry Creek Clean up

- Target Audience General Public
- Opportunity for public involvement
- Cooperative effort with Grays Harbor Stream Team

Chehalis River Watershed Festival - TBA (Pending)

- Target Audience General Public
- Stormwater Booth
- Educate public on IDDE
- Distribute stormwater educational merchandise

Stormwater Informational Letter – 10/2012 (Pending)

- Target Audience General Public
- Added to September 2012 utility bill
- Bill Stuffer
 - o IDDE information
 - o Grays Harbor Stream Team information
 - o TBD

Operation & Maintenance Training – 10/2011 (TBD)

- Target Audience Public Works Staff
- O&M Training
- SWPPP Training
- Combined w/ quarterly Safety Meeting

The City of Aberdeen

Stormwater Community Research Report April, 2011

Prepared by: Kenneth Klima, Senior Research Director Bret Buttenob, Research Analyst

> Hebert Research, Inc. 13629 NE Bel-Red Road Bellevue, WA 98005 (425) 643-1337 kklima@hebertresearch.com

Stormwater Community Research Report

Aberdeen

STORMWATER COMMUNITY RESEARCH REPORT

April, 2011

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Goal

Research Goal:

The goal of this research is to measure the public's knowledge and practices regarding stormwater in the city of Aberdeen using a telephone survey. This research was completed at the request of the participating city and may be used for stormwater planning and partial compliance with National Pollutant Discharge Elimination System (NPDES) Phase II permit compliance requirements.

Content Areas for the Survey:

The "general public" is defined as: adults (18 years of age and older) who speak English and live in the city of Aberdeen. The subjects covered included:

- ❖ General impacts of stormwater flows into surface waters.
- ❖ Knowledge of the benefit of pervious surfaces.
- Source control BMPs and environmental stewardship actions and opportunities in the areas of pet waste, vehicle maintenance, and landscaping.
- ❖BMPs for use and storage of automotive parts, hazardous cleaning supplies, carwash soaps and other hazardous materials.
- ❖ Knowledge of what constitutes an illicit discharge and how to report it.
- ❖ Yard care techniques relating to protecting stormwater quality and knowledge of what constitutes pollution in the yard.
- ❖ BMPs for use and storage of pesticides and fertilizers.
- ❖BMPs for the disposal of carpet cleaning fluids and auto maintenance.

Methodology

The survey was created for the general public for administration within Aberdeen. Survey questions were developed by Hebert Research with input from the city. The survey consisted of 30 questions with 27 of them relating directly to knowledge about stormwater issues and practices respondents had adopted which protect the quality of stormwater. The remaining three questions dealt with an overall assessment of surface water quality, to whom illicit discharges should be reported and the age of the respondent.

Sample

A list of containing over 1000 telephone numbers appearing in the telephone directory was purchased from a reputable commercial list company. The list company maintains a record of all telephone numbers appearing in all phone books in the United States cross-referenced by zip code. Using the zip code covering the study area, the list company drew a random sample of phone numbers. The random draw of these phone numbers assures proper proportionate sampling. High density areas have more phone numbers and, by randomly drawing from the list, the high and low density areas are properly proportioned. The resulting list was loaded into Hebert Research's CATI (Computer-Aided Telephone Interviewing) system which randomly selects phone numbers as required during the interviewing process. Each phone number was called at least five times at different times during the day and evening before being replaced by a new number. This helped to assure that the survey was administered to both those who are easy to reach and those who are more difficult to contact.

The following table represents the obtained, random sample for the city:

Sample Totals	
City	Sample Size
Aberdeen	102

Research Controls

Hebert Research applied a variety of controls to help ensure that the research and analysis reached the highest quality that can be provided. The primary research controls that were employed in this study included the following:

Interviewer Training

All interviewers participated in a special training session for this study. During this training session, the questionnaire was read and a discussion was held regarding the objectives of the study, screening questions, skip patterns, and techniques for handling potential problems. Interviewers raised questions and provided their professional feedback regarding potential interviewing issues. All issues were resolved.

Pre-test the Survey

After the questionnaire was programmed in our CATI system, it was rigorously tested to assure all questions were asked and that data was accurately recorded. Fifteen surveys were conducted during the pretest. The programming was deemed to be valid.

Conduct Interviews

Following a successful pretest of the questionnaire, telephone interviews were conducted using Ci3 CATI software from Sawtooth Software, a recognized leader in computer-aided interviewing. Potential respondents were called weekdays at various times throughout the afternoon and evening until 9:00 pm. An appointment and callback procedure was used when necessary to minimize refusals and allow respondents to complete the survey at a convenient time. Interviews were conducted in English.

Monitoring

Telephone interviews were regularly monitored by the data collection supervisor and were found to be properly conducted.

Internal Peer Review

Hebert Research uses an internal review process called "CERA" (create, edit, review, approve) which is similar to academic peer review to ensure that each study meets or exceeds rigorous quality control standards. Through this process, several analysts review the statistical findings and offer critical feedback designed to increase the utility of the research and produce a clear and insightful report.

Incidence and Response Rates, Margin of Error

A total of 102 surveys were completed with adults living in Aberdeen. At the 95% confidence level, the maximum margin of error for a sample size of 102 respondents is $\pm 9.8\%$. This margin of error means that if the survey was conducted 100 times, the resulting percents for each response would be within $\pm 9.8\%$ (the margin of error) in 95 out of the 100 cases for each question.

Over 1,000 phone numbers of residences in the city were called. Many of these calls went unanswered or went to voicemail. When a resident answered the phone, we asked the individual to participate in the survey. The *incidence rate* represents the percent of individuals we spoke to who were qualified to take the survey, meaning they spoke English and reported living within the city. The *response rate* represents the percent of qualified individuals we spoke to who agreed to participate and who completed an interview. Response rates above 50.0% are higher compared to other community-wide surveys and serve to increase confidence in the survey's validity and reliability.

	Sampling Frame	
City	Incidence Rate	Response Rate
Aberdeen	76.4%	57.0%

Statistical Weighting

Statistical weighting is a technique that is commonly used in survey research to correct for sampling error. During the process of data collection, demographic data from the U.S. Census was obtained to identify population parameters for the zip code involved in the survey. Sample demographics—specifically, age and gender—were compared with distributions in the population within the city. To compensate for potential sampling error, weights were calculated and applied to the survey sample in order to ensure that the gender and age distribution matched census statistics. In the final weighting analysis, it was concluded that the sample was representative of the population within the critical parameters of gender and age.

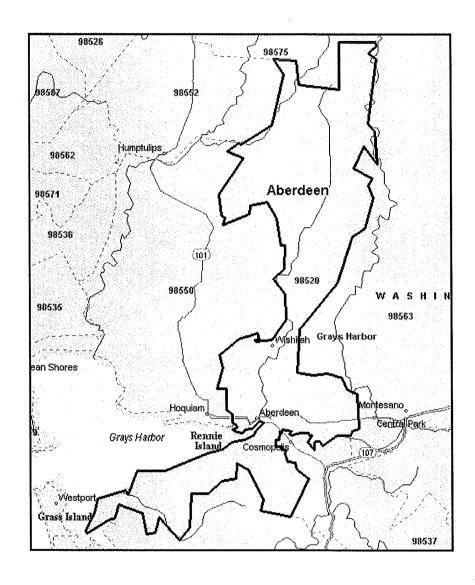
Use of Findings

Hebert Research has made every effort to produce the highest quality research product within the agreed specifications, budget and schedule. The customer understands that Hebert Research uses those statistical techniques, which, in its opinion, are the most accurate possible. However, inherent in any statistical process is a possibility of error, which must be taken into account in evaluating the results. Statistical research can reveal information regarding community perceptions only as of the time of the sampling, within the parameters of the project, and within the margin of error inherent in the techniques used.

Evaluations and interpretations of statistical research findings and decisions based on them are solely the responsibility of the customer and not Hebert Research. The conclusions, summaries and interpretations provided by Hebert Research are based strictly on the analysis of the data gathered, and are not to be construed as recommendations; therefore, Hebert Research neither warrants their viability nor assumes responsibility for the success or failure of any customer actions subsequently taken.

Geographic Area Surveyed

The map below shows the geographic area covered by zip code 98520 for the City of Aberdeen.



Explanation of Multivariate Analysis

The data for the survey was analyzed using the chi square statistic to examine differences between respondents according to age and gender. Responses for the knowledge questions were first categorized as being a correct response or an incorrect response. The incorrect response category was made up of wrong answers plus responses classified as "need more information," "don't know/refused," and "not applicable." Following classification, the chi square test was executed. For the questions dealing with the actions of the respondents, those who said the action did not apply to them were first eliminated from the data set. Following their removal, the categories were classified as being "correct" or "incorrect" with the "incorrect" classification consisting of the collapsed categories as described above. The statistical test was run using these two categories.

Hypotheses were tested using the 0.05 level of significance as the criterion value for the chi square analysis. When differences between groups reached this value, the finding is reported along with its level of significance which is stated as a p value (e.g., p = 0.04). Chi square results that reach the 0.05 level of significance indicate there is at least a 19-out-of-20 likelihood that the finding is true. This is a generally accepted level of reliability for public surveys.

In addition to measures of significance in which differences have been determined at the 0.05 level, a measurement of association is also reported. This measure shows the strength of association or dependency between the variables being tested such as the response to a question and gender. A measurement of 0 indicates there is no association between the two. It represents a null relationship. A measurement of 1 indicates perfect association or, to continue the example, gender is completely predictive of the response to the question. This measure of association is called Cramer's V.

Respondent Profile

The following tables describe the demographic profile of the sample. As indicated in the methodology section, the sample was statistically weighted to match the population of Aberdeen by gender and age.

Age	Overall
18-24	12.4%
25-34	16.6%
35-44	19.4%
45-54	19.4%
55-64	12.7%
65 or older	19.5%

Gender	Overall
Male	49.3%
Female	50.7%

Results for the City of Aberdeen are compared in the report to the average ratings from fourteen cities which we call the "Region." The fourteen cities included in the Region are:

- Aberdeen
- Centralia
- Duvall
- Edmonds
- Enumclaw
- Kenmore
- Lakewood
- Maple Valley
- Mercer Island
- Mill Creek
- Mountlake Terrace
- Mukilteo
- Newcastle
- Woodinville

Assessment of Water Quality in the Environment

Aberdeen and Region Show Very Similar Overall Perception of Surface Water Quality Respondents rated the quality of water in our rivers, wetlands and lakes on a "0" to "10" scale where "0" meant "extremely polluted" and "10" meant "extremely clean." As shown in Figure 1 below, respondents rated the quality of water in the environment at 6.70 which is virtually identical to the average rating (6.71) given by fourteen Phase II cities in Western Washington, including Aberdeen, which this report refers to as the Region.

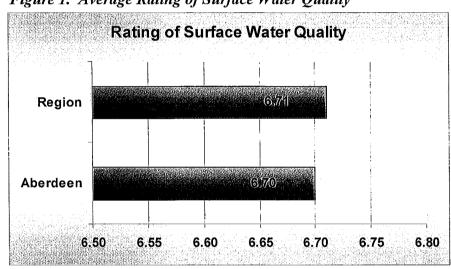
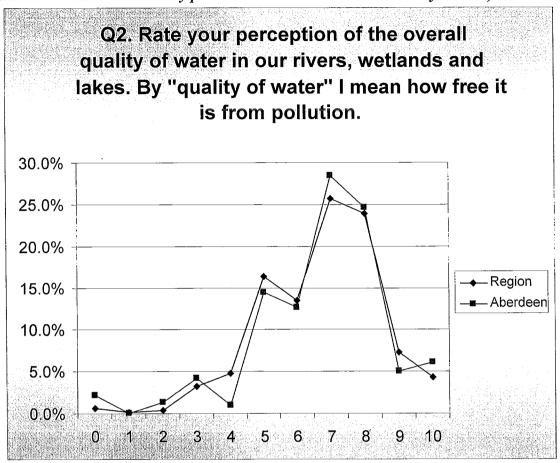


Figure 1. Average Rating of Surface Water Quality

The rating of 6.70 suggests the public sees the quality of water in our rivers, wetlands and lakes as being clean, but on a relatively low level. The shape of the curve for Aberdeen ratings (see Figure 2 below) and the Region are remarkably similar indicating that Aberdeen residents view surface water quality in the same way as do residents in the Region. The shape of the curves also suggest a classic normal distribution of scores which is shifted to the right, toward the high end of the scale. A classic normal distribution would result if: 1) the information available to the public provided a confusing picture of surface water as being both high and low in quality, or 2) respondents possessed little knowledge about water quality and guessed at an answer.

The shift in average ratings from the middle toward the high end of the rating scale suggests the Aberdeen public, as a whole, views water quality as being generally clean but with some uncertainty. The similarity of the distribution of ratings to the normal curve suggests that the residents in the city may be unclear about how clean the water is and that many respondents may have taken a guess at it.

Figure 2. Rating by General Public of the Quality of Water in the Environment (0 to 10 scale where "0" meant "extremely polluted" and "10" meant "extremely clean.")



Public Needs a Better Awareness of the Problem

The implication of this finding for education purposes is that the public needs to be more deeply informed regarding the current levels of pollution in rivers, wetlands and lakes. Using social marketing techniques, educational efforts should communicate: 1) the current nature, severity and negative effects of surface water pollution, 2) the quality of surface water that is desired and a vision of clean water in the future, 3) the many positive outcomes that will result from constructive public action to preserve the quality of surface water, and 4) the helpful practices individuals need to adopt to prevent polluting surface waters. The more real the public perceives the problems caused by pollution and the benefits of higher quality surface water and the more advertising employs effective social marketing techniques, the greater the impact and response will be. If the city can go beyond simple education and offer programs that help residents to overcome obstacles to behavioral change, the opportunity for success increases. For example, people often resist changing their behavior if the change will cost them money. Stormwater programs that will eliminate or reduce the monetary cost will have a much higher chance of success. If, for example, the city can offer a program where citizens receive money-saving coupons for using a commercial car wash instead of washing their car on the street where soapy water enters the stormwater drainage system, the likelihood of changing the public's behavior in a desirable direction rises.

Areas of Greatest Educational Need

The two main purposes of this survey are to establish a baseline of the public's knowledge and practices regarding stormwater and to provide direction to the city's public education program to meet the requirements in the NPDES Phase II Permit. The survey tested the public's knowledge and practices regarding 27 key issues. The resulting data provides baseline measures against which to assess future improvement as a result of the city's public education and social marketing programming.

The priorities for education resulting from this research are divided into three levels based on the percent of the respondents in Aberdeen who provided a correct answer—the lower the percent of correct answers given, the higher the priority for education.

- Priority 1: Less than 50% correct answers (Table 1)
- Priority 2: From 50 to 80% correct answers (Table 2)
- Priority 3: Over 80% correct answers (Table 3)

In administering the questionnaire, respondents were presented with statements that were either true or false and were asked if they agreed or disagreed with the statement. Each of the statements in the tables appearing below include a letter indicating the correct answer for that statement, an **A** for "Agree" and a **D** for "Disagree." When the word **Adopt** appears, it means the statement deals with whether respondents have "adopted" the desirable behavior mentioned in the statement. The combination of **A Adopt**, then, means the question deals with behavior and the desired response is **Agree**—which equates to the respondent saying that he or she engages in the desired behavior mentioned in the statement.

Γ	Rank for
	Education
	1
	22,
	.3
	4-9
	10-18
心形影響	119-23
	24
	25
	26
	27

All issues in Tables 1, 2 and 3 are ordered by the city's rank for education. The ranking of issues for the Region is also shown with a color code as shown in the "Rank for Education" table on the left. The top rank item for education is colored bright green. Also a "1" appears underneath the percentage in the cell meaning it is ranked number one for education. The least important issue is a magenta color with "27" appearing underneath the percentage of correct answers given by respondents.

Priority 1 Issues: 50% or Less Correct Answers

Across the city of Aberdeen, less than 50% of the public gave the correct answer to seven issues (25.9% of the 27 issues tested, see Table 1). Compared to Regional results, the number one and three issues for education are identical. Aberdeen residents also appear to be less aware of the value of a commercial car wash in reducing pollution (Q17) than the Region, but are less likely to have soapy water from washing a motor vehicle end up in a ditch or on the street where the residue can be washed into the storm drainage system (Q16). Half of the Aberdeen public appears to understand that stormwater runoff is the leading cause of pollution which is an understanding that is fundamental to behavioral change.

Table 1. Priority 1 Issues for Public Education

Rank for	Question	% Correct Responses		
Education	Question	Region	Aberdeen	
1	15. The runoff from washing a car with biodegradable soap is safe in stormwater drains. D	20/8/6	23.8% 11.154	
2	5. Pollution in our rivers, wetlands and lakes and in Puget Sound is more the result of industrial dumping practices than individual human activity. D	40% 4	34.4% 2	
3	28. Bricks or pavers offer no advantage for reducing runoff over concrete or asphalt pavement. D	38.2% 3	36/8 % 3	
4	17. Washing a vehicle at a commercial car wash causes less pollution than washing a vehicle on the street using a biodegradable soap. A	57.8% 9	44.4% 4	
5	19. Grass clippings and leaves are not regarded as harmful in stormwater. D	46.6% 6	47% 5	
6	16. When I wash a motor vehicle at home, the soapy water ends up in a ditch or on the street. D Adopt *	35.1% 2	47.4% 6	
7	4. Stormwater runoff is the leading cause of pollution in rivers, wetlands and lakes. A	53.2% 8	49.2% 7	

^{*}Blue indicates a question dealing with behavior, what the respondent does. Percents apply only to respondents who said the question applied to them.

Table Note: All "Does not apply" responses to knowledge questions were added to the "Incorrect" response category since all knowledge questions apply to all respondents. This rule applies to all the tables in the report.

Aberdeen and the Region Show a Similar Need for Education

As shown in Figure 3, residents in Aberdeen and the Region gave a similarly low percent of correct answers for Priority 1 issues suggesting that Aberdeen residents are similar to the Region in the need for educational programming.

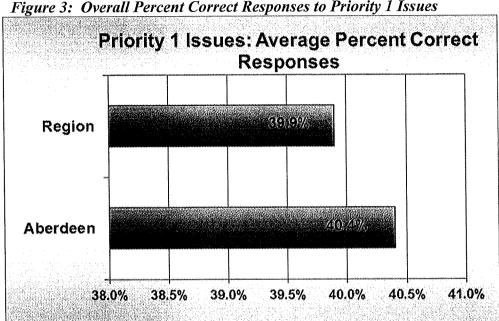


Figure 3: Overall Percent Correct Responses to Priority 1 Issues

Issues Involving Soap Show High Need for Education

Of all the issues tested, the residents of Aberdeen show the least awareness of correct practices involving soap. Issues involving soap have the greatest potential for demonstrating improved community knowledge as a result of educational programming. Educational programming should convey the following messages:

- Biodegradable soap is not a safe addition to stormwater drains and should be kept from running into the stormwater drainage system.
- Wash your car in an area where the soapy runoff will be absorbed by the ground or take your car to a commercial car wash.
- Soapy water should not be allowed to flow into the street or into a drainage ditch.

Knowledge of the Stormwater Drainage System and Pollution Sources is Lacking

Other low scoring issues for the city dealt with how the stormwater drainage system works. Approximately two thirds (65.6%) of Aberdeen residents did not know that individual human activity, not industrial dumping, is the primary cause of pollution in rivers, wetlands, and lakes. Knowledge of how rivers, wetlands, and lakes become polluted by stormwater is an essential precursor to improving understanding, raising the desire to act responsibly, and bringing about behavioral change. Educational programming in Aberdeen should convey the following messages:

- Stormwater runoff is the leading cause of pollution in rivers, wetlands and lakes. Therefore, to reduce environmental pollution, the challenge to the community is to help keep stormwater runoff pollution free.
- The primary cause of pollution in stormwater runoff is individual human activity, not industrial dumping. Success in reducing environmental pollution depends upon everyone's participation in helping to make a difference.

Actions to Prevent Polluting Stormwater Need Emphasis

Responses to questions regarding pavers and grass clippings also revealed relatively low levels of informed awareness in the community and indicated a need for public education. Nearly two out of three respondents (63.2%) were not aware that bricks and pavers offer an advantage in reducing storm water runoff. Less than half of the respondents knew grass clippings and leaves constituted pollution. The following messages should be conveyed:

- Bricks or pavers help to reduce the volume of stormwater runoff and, therefore, help to reduce stormwater pollution in the environment.
- Grass clippings and leaves in stormwater are regarded as pollution and should be kept out of the stormwater drainage system.

Priority 2 Issues: 50% - 80% Correct Answers

Priority 2 Issues represent areas of knowledge or behavior where at least half of the public knows what is correct. Fourteen issues made this list, which constitutes 51.9% of the 27 issues tested. While this more desirable level of public knowledge is a step in the right direction, more can and should to be done to further raise the public's level of knowledge. These areas continue to represent genuine opportunities for reducing surface water pollution from stormwater runoff.

One issue on the Priority 2 list should be included among the Priority 1 items as an issue that is fundamental to increasing responsible action in the public domain. About four out of ten respondents were not aware that all water going into stormwater drains on the street is not treated before being discharged into the environment. Correcting this lack of understanding can be a major step forward to expanded public recognition and alertness to actions that contribute to surface water pollution and to subsequent behavioral improvement. Awareness of the problem is the first necessary step on the road to behavioral change.

A second issue on the Priority 2 list that should be elevated to Priority 1 is knowledge of the definition of an illicit discharge. About a third of the respondents were not aware that anything in stormwater other than water is pollution. As a beginning point and a key precursor for positive action, knowing the definition of an illicit discharge will help individuals make better decisions regarding how to protect stormwater quality when facing new situations with a potential for creating pollution.

Table 2. Priority 2 Issues for Public Education

Rank for	rity 2 Issues for Public Education	% Corr	ect Responses
Education	Question	Region	Aberdeen
0	21. Sediment or dirt in stormwater is natural and	42.7%	50.5%
8	not regarded as pollution. D	5	8
	6. All water going into stormwater drains on the	58.2%	56.1%
9	street is treated before being discharged into the	1	36.1% 9
	environment. D	10	9
	3. Drains on city streets for stormwater are	46.7%	56.4%
10	connected to the same sanitary sewer system used		
	for treating human waste. D	7	10
	18. The best place to dispose of water from	(2.20/	59.60/
11	cleaning a Latex paint brush is in a sink inside, not	63.2%	58.6%
	outdoors. A	12	11
10	20. Chemical treatments to kill moss on roofs pose	65%	66.5%
12	little risk for polluting stormwater. D	13	12
	29. An illicit or unlawful stormwater discharge is		
12	primarily defined as anything that enters a storm	58.3%	66.9%
13	drain system that is not made up entirely of	11	13
	stormwater. A		
1.4	23. Using a mulching lawnmower reduces the	75.1%	72.4%
14	need to fertilize a lawn. A	18	14
1.5	27. Carpet shampoo wastewater can be safely	70.5%	72.6%
15	added to a stormwater drain. D	14	15
	12. All of my family's auto or truck parts with oil	930/	72.00/
16	or grease on them are stored under a roof or cover.	82%	73.9%
	A Adopt*	21	16
	7. Hard surfaces such as roads and driveways are	70.70/	74.607
17	not significant sources of pollution in stormwater.	70.7%	74.6%
	D	15	17
	10. Scrubbing oil and grease spots on outdoor		
10	concrete or asphalt with soap and hosing it off is a	72.6%	74.9%
18	good way to prevent polluting stormwater runoff.	16	18
	D		
	22. The downspouts at my house convey the water	72 50/	75100V
19	to an area where it is absorbed by the ground. A	73.5%	75.3%
	Adopt*	17	19.
20	8 When I am outside with my pet, I always pick up	87.7%	75,4%
20	my pet?s.waste, A Adopt*	23	20
	9. The best way to clean up spilled oil on the	A STATE OF THE STA	
21	driveway is to fully absorb it using kitty litter or		78.5%
41	paper towels and deposit this waste in a garbage	19	21
	can. A	1,000	er er mit der kritigeren. Si

^{*}Blue indicates a question dealing with behavior, what the respondent does. Percents apply only to respondents who said the question applied to them.

Table Note: All "Does not apply" responses to knowledge questions were added to the "Incorrect" response category since all knowledge questions apply to all respondents. This rule applies to all the tables in the report.

Figure 4 shows that the percent of correct responses for Priority 2 issues in Aberdeen is higher than the Region.

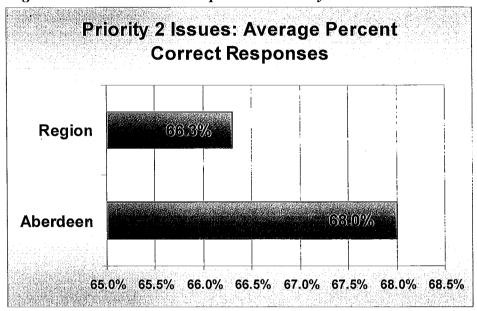


Figure 4: Percent Correct Responses to Priority 2 Issues

Related Multivariate Analysis Findings

Q6. Men were significantly more aware than women that all water going into stormwater drains is not treated before being discharged into the environment (p = .036, Cramer's V = .207).

Gender	Correct	Incorrect
Male	66.7%	33.3%
Female	46.2%	53.8%

Q3. Men were significantly more aware than women that drains on city sidewalks are not connected to the same sanitary system used for treating human waste (p < .001, Cramer's V = .471).

Gender	Correct	Incorrect
Male	80.0%	20.0%
Female	33.3%	66.7%

Q29. Men were significantly more aware of the correct definition of an illicit stormwater discharge than were women (p = .050, Cramer's V = .194).

Gender	Correct	Incorrect
Male	76.0%	24.0%
Female	57.7%	42.3%

Q12. Women were significantly more likely than men to believe that all their family's auto and truck parts with oil or grease on them are stored under a roof or cover (p = .009, Cramer's V = .280).

Gender	Correct	Incorrect
Male	61.4%	38.6%
Female	86.0%	14.0%

Q10. Men were significantly more aware than women that scrubbing oil and grease spots on outdoor concrete or asphalt and then hosing it off is not a good way to prevent polluting stormwater (p = .016, Cramer's V = .240).

Gender	Correct	Incorrect
Male	86.0%	14.0%
Female	65.4%	34.6%

Ongoing education and social marketing that addresses Priority 2 issues is needed. The following issues should be addressed in future educational programming:

- Sediment is pollution and should be prevented from entering the stormwater drainage system.
- All water going into stormwater drains is **not** treated before being discharged into the environment.
- The water in stormwater drains is not connected to the sanitary sewer system nor is it treated in any way to remove pollutants before being released into the environment. Therefore, the quality of stormwater going into the drainage system is what determines the level of pollution in surface water.
- The best place to clean paint brushes is in a sink that drains into the sanitary sewer system, not outdoors.
- The residue from chemical treatments that kill moss is a source of pollution.
- An illicit or illegal discharge is anything that enters a storm drain system that is not made up entirely of stormwater.
- A mulching lawn mower reduces the need for using fertilizer and, hence, represents a valuable method for eliminating fertilizer pollution in stormwater.
- Carpet shampoo wastewater causes pollution to the environment and should not be disposed of in a stormwater drain.
- Store auto or truck parts with oil or grease on them under a roof or cover.
- Hard surfaces are significant contributors to pollution in stormwater runoff. Hence, it is important to keep hard surfaces clean using acceptable cleaning techniques and, where possible, use pervious surfaces.
- Applying soap to oil and grease spots on outdoor concrete or asphalt and rinsing it off with a hose is not a good method for protecting stormwater runoff.
- Direct downspouts to areas on land where the runoff will be absorbed by the ground instead of entering the stormwater drainage system.
- Pick up pet waste when outside.

in the garba	ge can.				
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		•			
	•				
		•			

Priority 3 Issues: Higher than 80% Correct Answers

The remaining six issues (22.2% of the 27 issues tested) deal with specific practices respondents reported engaging in. While respondents indicated in high percentages that they engage in these positive behaviors, a question can be raised whether this is actually the case or respondents are simply providing the recognized correct answer. What this data indicates is that at least respondents are quite aware of the proper actions to take if not actually practicing them. Since a high percentage of respondents say they are already practicing these desirable behaviors, dollars spent to further raise public awareness and promote behavioral change in these areas will have a rather small target market—namely, those who are currently unaware of the desirability or undesirability of these behaviors which is somewhere between 4% and 14% of the population. Because the number of people is so small, the ability to raise the percent of correct responses in these areas will be much more difficult to achieve and document compared to Priority 1 and Priority 2 issues.

Table 3. Priority 3 Issues for Public Education

Rank for	Question	% Cori	ect Responses
Education	Question	Region	Aberdeen
22	II. If my car or truck is dripping oil, I make sure the leak is fixed within three weeks. A Adopt*	87.5% 22	86.2% 22
23	13. My household recycles all used motor oil. A Adopt?	8141% 20	87/1% 23
24	25. In the past 12 months, I may have applied a higher dose of insecticide or weed killer around my house than the directions say to use. D Adopt*	91.1% 24	89.5% 24
25	26. In the past 12 months, I may have used more fertilizer or applied it more frequently than the label directions require. D Adopt*	91.6% 25	90.9% 25
26	24. My household stores all yard fertilizers and pesticides inside a building or in a covered area out of the rain. A Adopt*	95% 27	95.9% 26
27	14 My family stores all containers holding oil or antifreeze under a roof or cover. A Adopt*	94.1% 26	96.3% 27

^{*}Blue indicates a question dealing with behavior, what the respondent does. Percents apply only to respondents who said the question applied to them.

Table Note: All "Does not apply" responses to knowledge questions were added to the "Incorrect" response category since all knowledge questions apply to all respondents. This rule applies to all the tables in the report.

As shown in Figure 5, on average, respondents living in Aberdeen showed a higher level of compliance regarding Priority 3 behaviors than did the Region.

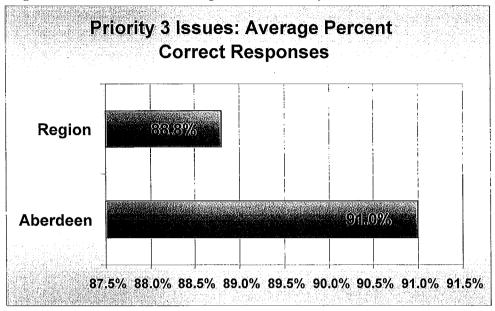


Figure 5: Percent Correct Responses to Priority 3 Issues

Practices

Because of the already high awareness in these areas, one may assume that minimal public education and social marketing need to be done. Given the potential for negatively impacting stormwater which these items represent, however, it remains advisable to continue educating the public on these issues but at a lower level of emphasis compared to Priority 1 and 2 issues. The messages to be communicated are:

- Fix auto or truck oil leaks within three weeks.
- Recycle used motor oil.
- Apply insecticides or weed killer at recommended rates.
- Apply fertilizer at recommended rates.
- Store all yard fertilizers and pesticides inside a building or in a covered area out of the rain
- Store containers holding oil or antifreeze under a roof or cover.

All Issues: Overall Percent Correct Responses is Very Uniform

Figure 6 shows the average percent of correct responses for all questions for Aberdeen compared to the Region. Overall, Aberdeen residents gave the same number of correct responses as the average of the fourteen communities representing the Region. Aberdeen residents are similarly knowledgeable about a broad spectrum of stormwater issues as residents throughout the Region.

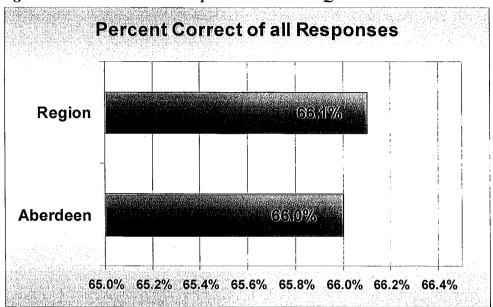


Figure 6: Percent Correct Responses Across All Questions

Reporting an Illicit Discharge

To report an illicit discharge, respondents would call a variety of agencies with 44.5% of Aberdeen residents calling their City Public Works Department, the correct choice. This compares very favorably with the Region where only 29.6% gave the correct answer, nearly 15% fewer (see Table 4 below). The fact that nearly six out of ten respondents would call the wrong agency or needed more information about who to call means that additional public education is needed to increase awareness and proper reporting.

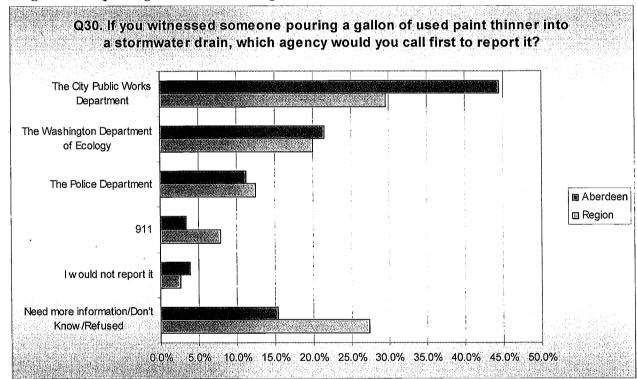


Figure 7: Reporting an Illicit Discharge

The percent of responses given for each response category (agency) appears in Table 4 below.

Table 4. Percent Who Would Report an Illicit Discharge by Agency

Anna	Posion	Aberdeen
Agency	Region	Aberdeen
The City Public Works Department	29.6%	44.5%
The Washington Department of Ecology	20.1%	21.5%
The Police Department	12.5%	11.3%
911	7.9%	3.4%
I would not report it	2.6%	3.9%
Need more information/Don't Know/Refused	27.3%	15.4%

Stormwater Survey Results for 14 Cities: Priority 1 Issues

The following three tables present the percent correct answers for each of fourteen cities that have administered the survey beginning in the summer of 2009. Priority rankings for education were determined by the overall percent of correct responses for all cities combined (called the Region).

Table 5. Priority 1 Issues (Under 50% Correct Responses) for Fourteen Northwest Washington Cities

						-		% Corr	% Correct Responses by Area	by Area						
Rank for Education	Question	Region	Aberdeen	Centralia	Duvall	Edmonds	Enumclaw	Kenmore	Lakewood	Maple Valley	Mercer Island	Mill Creek	Mountlake Terrace	Mukilteo	Newcastle	Woodinville
_	 The runoff from washing a car with biodegradable soap is safe in stormwater drains. D 	10.08 10.08	28.87	0000	0/H00	11 V-83 C	[5]E 0170	36.6% 2	31.7% 3	<u>22.</u> 5% <u>2</u>	0.00	3.30% 2.30%	23.300 2	18 (CG		30.7%
77	16. When I wash a motor wehicle at home, the soapy water ends up in a ditch or on the street. D Adopt	25.1% 2	47.4%	44.8% 7	36.30c	37 <u>.</u> 100 2	42.4% 4	2629%	33.0%	105% 15	35 <u>7</u> 3%	24.9% 1	2 <u>1</u> 4º6	38.9%	19.226	33.334 B
3	 Bricks or pavers offer no advantage for reducing runoff over concrete or asphalt pavement. 	38.2% 3	Š. c	38.9% 5	48.9%	. E.	48.3%	46.3%	30.0% 2	38.4%	49.1% 5	33.8% 8	30.3%	33.1% 2	20,9%	99 .es
4	5. Pollution in our rivers, wetlands and lakes and in Puget Sound is more the result of industrial dumping practices than individual human activity.	40.0%	35.100 2.100	41.2%	40.4%	43.8%	39,4%	44.2%	35.5% 5	44.2%	47.7%	44.1%	41.3%	39.2% 5	46.9%	37.6%
30	21. Sediment or dirt in stormwater is natural and not regarded as pollution. ${\bf D}$	42.7% 5	50.5% 8	38.0%	38.0%	52.6%	46.3% 6	30, co	50.7% 8	<u>25.55</u>	49.2%	44.1%	200 E	3)(6)(6) (6)(6)(6)(6)(6)(6)(6)(6)(6)(6)(6)(6)(6)(33.6%	36.0%
9	 Grass clippings and leaves are not regarded as harmful in stormwater. D 	46.6%	47.0%	40.2%	49.2% 8	43.3%	43.8%	50.7%	53.4%	45.9%	3.7%	49.2%	47.0% 8	53.5%	46.7%	41.5%
7	Drains on city streets for stormwater are connected to the same sanitary sewer system used for treating human waste. D	46.7%	56.4% 10	28.2.% 2	36.7% 3	55.1%	36.640 2	45.3%	21000 21000 21000	49.0%	9	40.5%	41.6%	53.9%	45.9%	50.9%

Stormwater Survey Results for 14 Cities: Priority 2 Issues

Table 6. Priority 2 Issues (50% to 80% Correct Responses) for Fourteen Northwest Washington Cities

								% Corr	% Correct Responses by Area	by Area						
Rank for	Question	Region	Aberdeen	Centralia	Duvall	Edmonds	Enumclaw	Kenmore	Lakewood	Maple Valley	Mercer	Mill Creek	Mountlake Terrace	Mukilteo	Newcastle	Woodinville
Education		/00 03	700 00	700 75	30 80%	%9 05	\$0.3%	%1 69	46.5%	57.1%	89.98	20.6%	53.9%	59.5%	56.2%	28.6%
∞	4. Stormwater runoff is the leading cause of	027.60	47.270	10.6	5.070	200	10	10	9	6	∞	6	6	8	~	6
	pollution in rivers, wetlands and lakes. A			IO			Q.								_	
	17 Washing a vehicle at a commercial car wash	27.8%	44 4%	52.3%	52.3%	72.8%	51.7%	62.2%	48.7%	55.9%	00.0	57.1%	64.2%	64.6%	%8'.29	53.9%
6	causes less pollution than washing a vehicle on the	6	4	6	6	14	6	Π	7	<i>∞</i>	20	10	Ξ	10	12	∞
	street using a biodegradable soap. A	`								and its						
	6. All water going into stormwater drains on the	58.7%	26.1%	46.8%	29.6%	61.0%	56.2%	58.3%	58.1%	59.4%	%1.7%	20.0%	26.3%	67.2%	57.7%	29.6%
10	street is treated before being discharged into the	10	6	∞	11	Ξ	11	6	11	10	14	∞	10	12	6	10
	environment. U															
	29. An illicit of uniawful stormwater discharge is primarily defined as anything that enfers a storm	58 3%	%6'99	59.2%	66.4%	%8.09	48.2%	27.0%	%8.99	62.6%	60.1%	%9'.29	37.6%	63.5%	58.4%	29.7%
=	drain system that is not made up entirely of	11	13	12	16	10	7	∞	12	11	11	13	5	6	01	Π
	stormwater. A															
	18. The best place to dispose of water from	63.2%	28.6%	63.2%	64.5%	29.0%	60.4%	63.8%	57.1%	68.5%	%£'99	62.8%	%8.79	68.7%	%9:02	64.9%
12	cleaning a Latex paint brush is in a sink inside, not	12	=	15	14	∞	12	12	10	14	12	Ξ	14	15	15	13
	outdoors. A						,0,0	79.70	/00 00	/07 67	20 507	70 / 07	708 99	%6 89	%L C9	%5 09
5	20. Chemical treatments to kill moss on roofs pose	65.0%	%5.99	%6:09	62.4%	74.1%	%5.09	64.5%	07.7%	03.0%	37.70	1.5	12	12	11 /4	12.70
<u>-</u>	little risk for polluting stormwater. D	13	12	13	12	15	13	13	14 I	71	OT .	IS	13	CI	11	77
	77 Cornet champon materialer can be cafely	70.5%	72.6%	%6.09	63.9%	76.2%	%6.9/	%0.99	73.1%	77.9%	26.2%	75.7%	70.6%	82.2%	%0.0/	69.8%
14	added to a stormwater drain D	14	15	14	13	17	18	14	17	17	7	- 16	15	21	13	14
	7. Hard surfaces such as roads and driveways are	70 Joh	74.6%	%8 85	%0.65	%8.08	75.8%	%5'69	70.4%	67.3%	76.4%	72.7%	83.7%	%9.89	70.4%	71.9%
15	not significant sources of pollution in stormwater.	15	17	11	10	21	16	15	15	13	17	17	20	14	14	16
	10. Scrubbing oil and grease spots on outdoor										1	i i	è) 00) OO	71 00/
	concrete or asphalt with soap and hosing it off is a	72.6%	74.9%	67.1%	65.4%	79.2%	77.2%	71.9%	71.1%	/8.7%	/0./%	/0.8%	/5.5%	14.270	14.970	0/0.1/
16	good way to prevent polluting stormwater runoff.	16	18	16	15	- 6L	61.	16	16	18	18	16	16	16	»	ci.
	22. The downspouts at my house convey the water	72 50%	75.20	-88:10/	%6 09	72 3%	71.1%	79.4%	88.4%	%9'.LL	%5'99	65.4%	84.9%	66.1%	72.9%	82.3%
17	to an area where it is absorbed by the ground. A	17	61	22	17	13	14	18	24	16	13	12	21	11	16	20:
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85	23. Using a mulching lawnmower reduces the	_	72.4%	76.7%	%9.68	293%	×1.4%	75.7%	69.8%	15.9%	15.9%	07.270	0,7.0 19	17	17	17
?	need to fertilize a lawn. A	18	14	18	C7		77	1/	3	CI	2		0.0000000000000000000000000000000000000			
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19	paper towels and deposit this waste in a garbage		10	17	18	12	22	618	18	217	16	18	18	18	61	18
	can. A							CONTRACTOR								

Stormwater Survey Results for 14 Cities: Priority 3 Issues

Table 7. Priority 3 Issues (Over 80% Correct Responses) for Fourteen Northwest Washington Cities

Conclusions and Recommendations

It is clear that the public living in Aberdeen do not regard the water in rivers, wetlands and lakes as "extremely clean" (meaning free from pollution) nor "extremely polluted." The distribution of opinions across the rating scale suggests the public tends to either think of these waters as being somewhat clean, or to be uncertain due to receiving a mix of both positive and negative information.

The Aberdeen public shows varying degrees of knowledge regarding key issues for controlling stormwater pollution. In many cases respondents lacked awareness of basic information which substantiates the need for public education programming.

The public needs to be better informed regarding the current level of pollution in rivers, wetlands and lakes. Awareness of the problem is the fundamental understanding that leads to the motivation to act. Educational programming should raise the public consciousness by highlighting the critical nature of pollution in surface waters and the threats and negative or destructive outcomes that result. Second, programming should help to establish a common vision of pollution-free rivers, wetlands, and lakes as the goal to be achieved. Third, the direct and indirect positive outcomes of maintaining pristine conditions in rivers, wetlands, and lakes should be highlighted—these are all the good things that will result. Fourth, the means of achieving these outcomes—meaning the helpful practices individuals can implement—need to be presented through effective public education and social marketing practices in ways that are interesting, immediately understandable, convincing, and memorable and are able to tap into the public's beliefs, values and emotions in a way that will motivate behavioral change. Social marketing programs that provide a practical means to help residents overcome obstacles to change will likely be most successful in modifying behavior.

The results of this survey are very similar to the results for the Region which included the combined scores from thirteen cities in Western Washington plus Aberdeen. Since Priority 1 Issues show the lowest correct knowledge in Aberdeen, these subject areas offer an opportunity where success in improving the public's knowledge and behavior can be most directly realized and documented. Educational messaging should communicate the following Priority 1 messages:

- Biodegradable soap is not a safe addition to stormwater drains and should be kept from entering the stormwater drainage system.
- The primary cause of pollution in stormwater runoff is individual human activity, not industrial dumping. Success in reducing environmental pollution depends upon everyone's participation in helping to make a difference.
- Bricks or pavers help to reduce the volume of stormwater runoff and, therefore, help to reduce stormwater pollution in the environment.
- Washing a vehicle at a commercial car wash causes less pollution than washing a vehicle at home with biodegradable soap.
- Grass clippings and leaves in stormwater are regarded as pollution and should be kept out of the stormwater drainage system.

- Wash your car in an area where the soapy runoff will be absorbed by the ground or take your car to a commercial car wash. Soapy water should not be allowed to flow into the street or into a drainage ditch.
- Stormwater runoff is the leading cause of pollution in rivers, wetlands and lakes. Therefore, to reduce environmental pollution, the challenge to the community is to help keep stormwater runoff pollution free.

Two issues appearing on the Priority 2 list should be included among the Priority 1 items because of their standing as knowledge that is fundamental to improving behavior: the knowledge that all water going into stormwater drains on the street is not treated before being discharged into the environment and the definition of an illicit discharge. Knowledge of both is a precursor to increasing positive action. Messaging also needs to focus on establishing the concept that everyone is responsible for reducing pollution in surface waters.

Priority 1 issues should be communicated in repeated educational messaging. Social marketing seeks to produce behavioral change, and part of behavioral change comes from learning. Learning requires repetition (practice). Hence, important messages need to be repeated through different communication channels and at different times to effectively promote assimilation and bring about change. As mentioned previously, practical programs that help citizens to overcome obstacles to change or that reduce the "cost" which citizens must bear when changing their behavior (such as providing coupons to reduce the cost of using a commercial car wash) offer the greatest potential for bringing about wide behavioral improvements.

Priority 2 issues are less critical than the issues on the Priority 1 list, but still remain valuable messages to be delivered. The public shows the highest level of correct knowledge regarding Priority 3 issues which all involved behavior. At minimum, this finding demonstrates a wide public understanding of the right actions. At best, it indicates the public has adopted and is already widely practicing these desirable behaviors. Continued messaging is recommended regarding these issues to maintain and extend positive action, but with less intensity than for Priority 1 and 2 Issues.

City of Aberdeen

STORMWATER COMMUNITY SURVEY *QUESTIONNAIRE – SEPTEMBER*, 2010

V3.3

Hello, my name is	and I am calling on behalf of the city of Aberdeen.
[IF SPEAKING TO A CHILD you. [RE-INTRODUCE YO	May I speak to someone who is at least 18 years of age? Thank
are asking citizens about an imp	and I am calling on behalf of the city of Aberdeen. We ortant environmental issue and we would like to include your opinions. confidential and will not be connected to your name.
S1. [SCREENING QUEST]	[ON] Before we actually begin, I need to verify your city. What
city do you live in?	
1. Aberdeen	
2. Other City	[THANK AND POLITELY DICONTINUE]
3. Don't Know	[THANK AND POLITELY DICONTINUE]
4. Refused	[THANK AND POLITELY DICONTINUE]

- 1. What is your age? [RECORD NUMBER]
- 2. Great, thank you. My first question is about the water in our area. I'd like you to rate your perception of the overall quality of the water in our rivers, wetlands and lakes. By "quality of water" I mean how free it is from pollution. Rate it on a 0 to 10 scale where "0" means the water is "extremely polluted" and 10 means the water is "extremely clean." [RECORD NUMBER]

[READ]

Now, I'm going to read a number of statements to you regarding stormwater. Some of these statements may be true, they all may be true or they all may be false. If you believe that a statement is true, please say "Agree." If you believe the statement is false, say "Disagree." If you are not certain about the statement and need more information, you can answer with "need more information." If the question does not apply to you or your family, say "Doesn't Apply." Here is the first one. Do you Agree, Disagree or need more information about the following statement:

Responses for each:

- 1. Agree
- 2. Disagree
- 3. Need more information
- 4. Uncertain, Don't Know
- 5. Refused
- 6. Doesn't Apply
- 3. Drains on city streets for stormwater are connected to the same sanitary sewer system used for treating human waste. **D**
- 4. Stormwater runoff is the leading cause of pollution in rivers, wetlands and lakes. A
- 5. Pollution in our rivers, wetlands and lakes and in Puget Sound is more the result of industrial dumping practices than individual human activity. **D**
- 6. All water going into stormwater drains on the street is treated before being discharged into the environment. **D**

[ROTATE Q7-Q28] [NOTE: These questions will be asked in a random order to prevent sequencing bias.]

- [AFTER ASKING THE NEXT NINE QUESTIONS, SAY: You are doing really well. We are halfway through and I'll try to get through this as quickly as I can. Here's the next one, do you Agree, Disagree or Need More Information about this statement.]
- 7. Hard surfaces such as roads and driveways are not significant sources of pollution in stormwater. **D**
- 8. When I am outside with my pet, I always pick up my pet's waste. A Adopt
- 9. The best way to clean up spilled oil on the driveway is to fully absorb it using kitty litter or paper towels and deposit this waste in a garbage can. A
- 10. Scrubbing oil and grease spots on outdoor concrete or asphalt with soap and hosing it off is a good way to prevent polluting stormwater runoff. **D**
- 11. If my car or truck is dripping oil, I make sure the leak is fixed within three weeks. A Adopt
- 12. All of my family's auto or truck parts with oil or grease on them are stored under a roof or cover. A Adopt
- 13. My household recycles all used motor oil. A Adopt
- 14. My family stores all containers holding oil or antifreeze under a roof or cover. A Adopt
- 15. The runoff from washing a car with biodegradable soap is safe in stormwater drains. **D**

- 16. When I wash a motor vehicle at home, the soapy water ends up in a ditch or on the street. **D Adopt**
- 17. Washing a vehicle at a commercial car wash causes less pollution than washing a vehicle on the street using a biodegradable soap. A
- 18. The best place to dispose of water from cleaning a Latex paint brush is in a sink inside, not outdoors. A
- 19. Grass clippings and leaves are not regarded as harmful in stormwater. **D**
- 20. Chemical treatments to kill moss on roofs pose little risk for polluting stormwater. **D**
- 21. Sediment or dirt in stormwater is natural and not regarded as pollution. **D**
- 22. The downspouts at my house convey the water to an area where it is absorbed by the ground.

 A Adopt
- 23. Using a mulching lawnmower reduces the need to fertilize a lawn. A
- 24. My household stores all yard fertilizers and pesticides inside a building or in a covered area out of the rain. A Adopt
- 25. In the past 12 months, I may have applied a higher dose of insecticide or weed killer around my house than the directions say to use. **D** Adopt
- 26. In the past 12 months, I may have used more fertilizer or applied it more frequently than the label directions require. **D** Adopt
- 27. Carpet shampoo wastewater can be safely added to a stormwater drain. **D**
- 28. Bricks or pavers offer no advantage for reducing runoff over concrete or asphalt pavement. **D**
- 29. An *illicit* or *unlawful stormwater discharge* is primarily defined as anything that enters a storm drain system that is not composed entirely of stormwater. **A**
- 30. If you witnessed someone pouring a gallon of used paint thinner into a stormwater drain, which agency would you call first to report it: [READ 1-5]
 - 1. The Washington Department of Ecology
 - 2. The police department
 - 3. The city Public Works Department A
 - 4.911
 - 5. Need more information
 - 6. I would not report it
 - 7. Don't Know

8. Refused

That concludes our survey. I want to thank you very much for your time and cooperation
You have been very helpful. Have a good day!

POSTCODE GENDI	ER:		
1. MALE			
2. FEMALE			
DATE:	INTERVIEWER:		

Stormwater handout for festivals

Do Your Part and Get Involved

City of Aberdeen

The City of Aberdeen supports clean water. Here are some things you can do at home to help protect water quality in our watershed:

- Never put anything into the storm drain, drainage ditch, or creek.
- Always clean up after your pet.
- Use fertilizers and pesticides only when needed and apply the correct amounts.
- Dispose of leaves, grass clippings and other yard waste properly.
- Throw litter in the trash. Reduce, Reuse, Recycle.
- Recycle motor oil, antifreeze, and other auto fluids at an auto parts store or the county landfill.
- Wash your vehicle on the grass or take it to a commercial car wash.
- Check your vehicle for leaks and repair them.
- Tell a friend or neighbor how they can help protect our waterways too!

For more information about the ... of Aberdeen Stormwater Department contact:

Rick Sangder - (360) 537-3241 Email: rsangder@aberdeenwa.gov Website: <u>www.aberdeenwa.gov</u> Report Spills to 360-537-3393

WHAT IS STORM WATER?

In general terms, stormwater is rainfall or snow melt that flows over the ground. Impervious surfaces such as rooftops, driveways, sidewalks, and streets prevent stormwater runoff from naturally soaking into the ground. Stormwater runoff can pick up pollutants such as fertilizers, pesticides, animal waste, debris, oil and other toxins. This untreated runoff flows into storm drains and eventually reaches streams, rivers, lakes, and the ocean.

THE CHEHALIS RIVER BASIN WATERSHED

The City of Aberdeen lies within the Chehalis River Basin Watershed. A watershed is the region draining into a river system, or other body of water. In this case, the receiving waters are the Chehalis River and Grays Harbor.

Grays Harbor Stream Team

"A coalition of students, educators, citizen volunteers, local agencies, and non-profit organizations dedicated to the protection and restoration of streams that flow through Grays Harbor County."

Activities: Litter clean-ups along local streams and the Grays Harbor shoreline, invasive species removal, community outreach and education, develop partnerships with local cities and organizations, and involve residents in hands-on projects that foster environmental stewardship.

For more information about the Grays Harbor Stream Team contact:

Janel Spaulding (360) 538-4212

Email: jspauldi@ghc.edu Website: www.chehalisbasinpartnership.org Copy of City of Aberdeen Stormwater website

Aberdeen City Hall · 200 E Market Street · Aberdeen WA · 98520 the official site for the city of

City Council |

Our Community |

Emergency Management | Public Records | Municipal Code |

Government ..

Municipal Court

Legal Department

Building & Compliance i.

Community Development

Finance .

Utility Services

Human Resources ..

Fire Department ..

Police Department ..

Library L.

Parks & Recreation ..

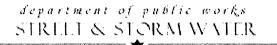
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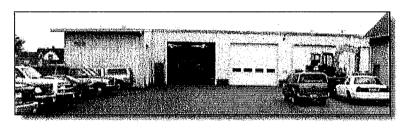
Public Commissions ..

Department Contacts









Street & Storm Departments

The City of Aberdeen Street & Storm Departments are located at 1101 W. Heron Street. After Hours Emergency Number - 360.533.5817

The City of Aberdeen Streets and Storm Departmets are responsible for all city Streets; Guardrails; Street Cleaning; Slides on Streets; Traffic Hazards; Missing Manhole Covers; Down Signs; Down Trees; Snow & Ice Sanding; All Storm Drainage problems; Tide Gates; Ditches: All Flood Dikes & Storm Pumps.

Street Department

The Street Department maintains around 171.8 miles of Street Lanes, 15.5 miles of alleys and 73.7 miles of sidewalks.

Storm Department

The Storm Department maintains 21.2 miles of open ditches, around 8 miles of culverts, 5 miles of flood dikes and also 17 storm water pump stations spread out across the city.

The City of Aberdeen Sign Shop is located at 1101 W. Heron Street.

Takes care City wide traffic control, all traffic sign in the City of Aberdeen, adds logo identification to all city vehicles and also works with the street maintenance crew.

Links of Public Interest:

- 2010 Annual Report
- 2010 Storm Water Management Program
 Illicit Discharge Detection & Elimination Program | Aug 2011

Public Participation Invitation

The City is committed to creating opportunities for the public to participate in the decisionmaking processes involving the development, implementation and update of the City's NPDES Phase II SWMP. Please Email comments and suggestions to Rick Sangder or Jeff Springer at the links below.

CONTACTS

Deputy Public Works Director

Rick Sangder (360) 537-3241

Street Dept. Dan Henze (360) 537-3268 \mathbb{Z}

Storm Water Dept. Steve Randich (360) 537-3268

Sign Technician Scott Olsen (360) 537-3227 \simeq

Staff Training



CREW LEADER SAFETY MEETING

CREW LEADER SAFETY MEETING

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F417-049-000 crew leader meeting 5-00



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F417-049-000 crew leader meeting 5-00

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F417-049-000 crew leader meeting 5-00

Municipal Storm Water

Blution Prevention

Storm Watch

Municipal Storm Water POLLUTION PREVENTION

Acknowledgment of Training

Signature(s) below are acknowledgment that on (date) _	February 26, 2011.
these individuals participated in a training session at the	(location name) Aberdoen Street Dept,
(address) 1101 W. Heron St.	· · · · · · · · · · · · · · · · · · ·
given by (print trainer's name) Rick San	
(print trainer's title) <u>Sakty Representat</u>	· · · · · · · · · · · · · · · · · · ·
J ,	
This training session presented information on Municipal S viewed the visual multimedia program:	Stormwater Pollution Prevention. During this session, I
🗆 Storm Watch: Municipal S	tormwater Pollution Prevention
My signature below affirms that I was given adequate ti	me to ask questions about my particular iob activities
how I can best conduct these activities in compliance	1 1 1
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Appendix F – Stormwater Review

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Engineering Department Plan Review Log

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Projects Reviewed by Engineering Department	ngineering Department	Discharges to	ervio	ii.	Stormwater		Approved for
Year 2011	2011	City System	5000 >		Pollution	COMMENTS	nstruct
- 1		YES NO	Keq. #1-12 Keq. 1-5	Keq. 1-5	Frevention		- 12
	Pontoon Project 1301 West Heron Street	×				Stormwater discharges to the Pontoon site which discharges via a separate NPDES	1/20/2011 LB
Project Batch Plant Date Suhmitted January 19	Batch Plant January 19, 2011					permit. System was approved in 2010.	
	Habitat for Humanity of G.H.	×			7	Roof drains to storm system	2/4/2012 LB
	608 Randall Street						-
Project New si	New single family dwelling						_
Date Submitted Februa	February 4, 2011	-					
Name Charles	Charles Anderson	X			×	Roof drains to storm system	2/18/2012 LB
Address 2411 Sumner	umner						
Project New si	New single family dwelling				•		
Date Submitted Februa	February 16, 2011			•			
Name DSHS		×		7	}	Existing parking lot unchanged, single story	3/7/2012 LB
	415 West Wishkah Street					office building changed to two story	
Project 2nd flo	2nd floor remodel/addition					building within same foot print	
Date Submitted March	March 7, 2011						
Name Guy Beaber	eaber	×			<u> </u>	Construction occurred within the walls of	3/10/2012 LB
Address 1000 S	1000 S. West Blvd.					existing structure, no external changes	
Project Office	Office Addition			-	•		
Date Submitted March	March 9, 2011						
Name Sean D	Sean Dedituis	X			~	Garage constructed over existing parking	3/21/2012 LB
-	410 East Scott Street					area. Drainage directed to existing ditch in	
	Detached Garage					back of property	
	March 18, 2011						
	Five Star Dealership	×				Building expansion replaced existing paved	5/31/2012 LB
	212 & 300 South Boone St.				ဌ	parking area. Existing bioswale upgraded	
	Remodel & Addition		_	<u> </u>	water	with sand filtration. Net reduction in	
Date Submitted May 13	May 13, 2011			1	plan	pollution generating impervious area.	
Name Rock F	Rock Harbor Construction	X				Home replaced home destroyed by storm.	6/27/2012 LB
	120 W. Huntley					Roof drains routed to existing City storm	
Project Manf.	Manf. Home & Garage		-			ditch.	
	June 10, 2011						
ŀ	David Cannady	X	×		~	Use of vegetation and bioswale.	6/29/2012 LB
	214 North B Street		PE prepared				
	Espresso Stand		stormwater				
Date Submitted June 29, 2011	9, 2011		. plan				

	Projects Reviewed by Engineering Department		Discharges to	New Imperv	New Impervious Area (ft ²)	Land Clearing	Stormwater		Approved for
		_	City, Cristom	2000	7000 5000	7000	Dollytion	STABANO	Construction
	rear 2011		YES NO	Req. #1-12	Req. 1-5	Req. 1-5	Prevention	CINTENTALO	Date Initial
101	Name Rick Silvan		\vdash	,			X	Garage constructed over existing parking	7/11/2012 LB
(21		Υ					ŧ .	9	
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	Date Submitted July 6, 2011								7/11/0010 Y D
11)	Name Marilyn & Dave Carlson	uc uc	_				×	Garage constructed over existing parking	//11/2012 LB
	Address 1019 South Boone Street	et							•
	_								
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1	1								
12)	Name Theron Petrina	~	<u></u>				×	Garage constructed over existing parking	//11/2012 LB
	Address 803 Thomas Street								
	- 1								_
13)	Name Michael Huff	<u>~</u>	_		•		×	Replaced existing building, parking not	//28/2012 LB
	Address 1621 Sumner Street							changed, roof drainage directed to City	
			_					system.	
	•		_						
1	Ī						4		0/10//010 I D
14)	Name Eugene & Carlene Kuhn	<u>~</u> =	<u></u>				٧	Carport over existing parking	0/22/2012 DD
	Address 1206 Spur Street	•							
	Project Addition								_
1	T		<u> </u>				X	Garage replaced garage destroyed by fire	10/12/2012 I.B
13)		<u> </u>						Carago represed garage assured on of the ci	
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	Project Garage			-					
	Date Submitted October 12, 2011								
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Stormwater Site Plan Submittal Contents Checklist

Stormwater Site Plan Submittal Contents Checklist

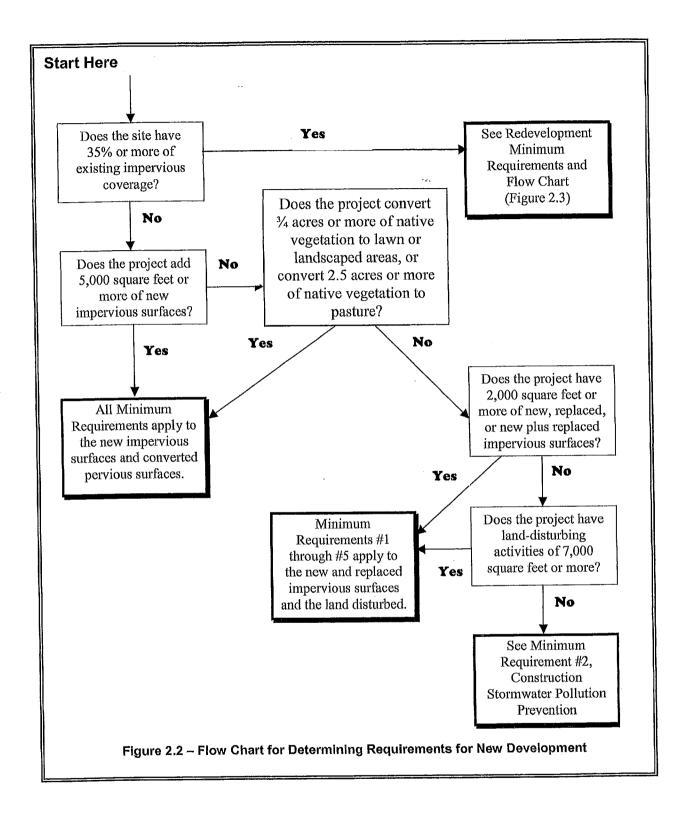
City of Aberdeen Stormwater Site Plan Submittal Contents Checklist

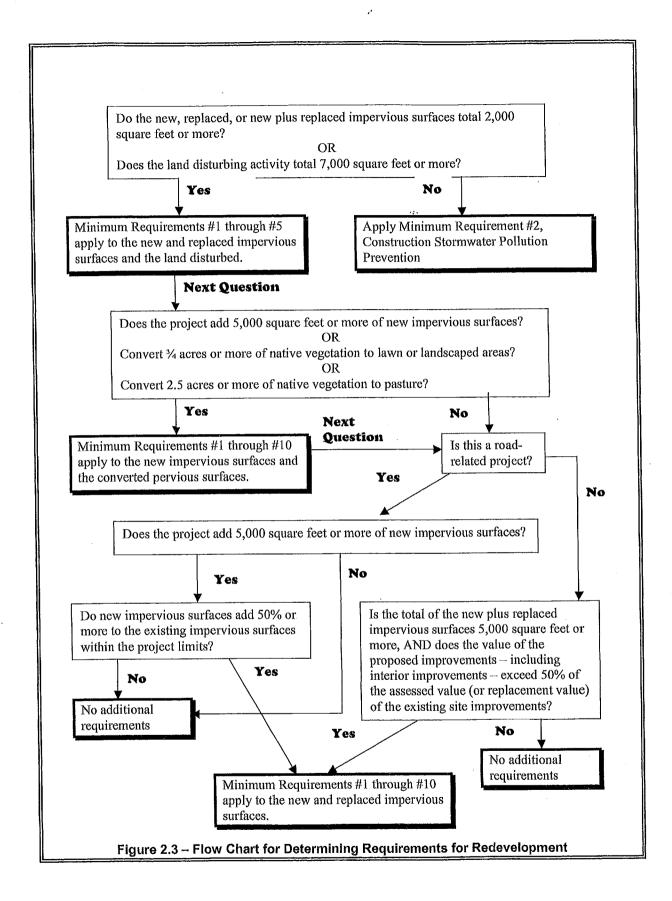
INSTRUCTIONS TO PROJECT APPLICANTS: Please complete this checklist and submit with your Stormwater Site Plan to City of Aberdeen for review.

	oject Site Name:	—
П	ject Applicant.	
	Contact information for applicant	
	Project Description	
	Existing Site Information	
	Mapping showing contours, areas, structures, roads, underground facilities, utilities, watercourses, wetlands and buffers, easements, test pits, drainage patterns. Note: The City Engineering Office has 2011 Aerial Photos with contours, right-of-ways, most utilities that may be used	
	Identify any critical areas located on the site. Note: The City Planning Office has a copy of the City's critical area ordinance which has maps designating	
	various critical areas in the city, i.e. wetlands, geologic hazards, fish bearing	5
	stream, etc Map showing all basins that flow to or across the site.	
	 Map showing own gradient drainage to the city stormwater system or 	
	receiving water body	
	Construction Stormwater Pollution Prevention Plan (CSWPPP)	
	Plans and specifications for construction of temporary facilities	
ū	Highlighted copy of the flow charts (Figure 2.2 and Figure 2.3) showing the path us to determine applicable minimum requirements for the project	sed
	Map showing developed site layout	
	Location and sites of on-site management, treatment and detention BMPs are facilities	nd
	Location and sizes of conveyance systems	
	 Construction drawings and specifications for stormwater BMPs and facilities 	es.
	 Calculation for sizing of facilities 	
ū	Hydrologic and hydraulic calculations. Note: check with City to verify acceptable	
	modeling procedures	
	Off-site analysis report (if required)	
	Operation and Maintenance Information	
	General Notes: The City does not normally require stormwater detention except for sites above elevation 30 (Aberdeen Datum) or sites where rate of stormwater runof	

increased and the City determines that there are downstream conveyance capacity

problems.





Stormwater Plan Review Summary

City of Aberdeen

Stormwater Plan Review Summary

Proje	ct Site N	ame:
	_	ng plan review should place review comments in blank spaces on the checklist and nimum requirement when review is completed.
outling project preparamust approximately	ned in the cts meeti are one or demonst priate sto	describes the requirements associated with each of the 10 minimum requirements a Stormwater Management Manual for Western Washington, February 2005. All right thresholds in Volume I, Chapter 2, Figures 2.2 and 2.3 are required to a more stormwater site planning documents for Municipality review. The applicant rate and document compliance with each applicable requirement through the primwater site plan (see Minimum Requirement #1, and the applicable submittals existed with a given project type).
Mini	mum Re	quirement #1: Preparation of Stormwater Site Plans. (Volume I, 2.5.1)
		the project has submitted each of the following documents where required:
	a. b. c.	Permanent Stormwater Control Plan Construction Stormwater Pollution Prevention Plan (SWPPP) (aka Erosion and Sediment Control Plan) Off-site Analysis
	d.	Construction Plans and Specifications for stormwater facilities.
Mini	mum Re	equirement #2: Construction Stormwater Pollution Prevention
a a a	revention nd include nd the ex pplicants	astruction SWPPP addresses the 12 Elements of Construction Stormwater Pollution as detailed in Volume II, Section 3.2. Each of the 12 elements must be considered led in the Construction SWPPP unless site conditions render the element unnecessary temption from that element is clearly justified in the narrative of the SWPPP. Project must refer to SWMMWW Volume II, Section 3.2 for the full list of applicable ants. The 12 elements are:
		rk clearing limits
		ablish construction access
		ntrol flow rates
		all sediment controls
		bilize soils
		tect slopes
		tect drain inlets
	o. Sta	bilize channels and outlets

- 9. Control pollutants
- 10. Control dewatering
- 11. Maintain BMPs
- 12. Manage the project.

Minimum Requirement #3: Source Control of Pollution

	<u>IP</u> : MR 3 applies primarily to Commercial and Industrial projects (see Volume I, Section .2). If the project is residential, this Minimum Requirement may be skipped.
	All known, available, and reasonable source control BMPs applicable to the project type have been applied. Source control BMPs include operational BMPs and structural source control BMPs outlined in SWMMWW Volume IV (for construction sites, see Volume II).
Mi	inimum Requirement #4: Preservation of Natural Drainage Systems and Outfalls
	Natural drainage patterns are maintained, and discharges from the project site occur at the natural location, to the maximum extent practicable. The manner by which runoff is discharged from the project site should not cause a significant adverse impact to downstream receiving waters and downgradient properties.
	All stormwater outfalls have necessary energy dissipation.

<u>TIP</u>: The municipality may have different requirements for conveyance system sizing and capacity analyses. The information below is excerpted from the SWMMWW and may be relevant if no conveyance system exists at the abutting downstream property line and the natural (existing) discharge is unconcentrated.

- a. If the 100-year recurrence interval peak discharge is less than or equal to 0.2 cubic feet per second under existing conditions and will remain less than or equal to 0.2 cubic feet per second under developed conditions, then the concentrated runoff may be discharged onto a rock pad or to any other system that serves to disperse flows.
- b. If the 100-year recurrence interval peak discharge is less than or equal to 0.5 cubic feet per second under existing conditions and will remain less than or equal to 0.5 cubic feet per second under developed conditions, then the concentrated runoff may be discharged through a dispersal trench or other dispersal system, provided the applicant can demonstrate that there will be no significant adverse impact to downhill properties or drainage systems.
- c. If the 100-year recurrence interval peak discharge is greater than 0.5 cubic feet per second for either existing or developed conditions, or if a significant adverse impact to downgradient properties or drainage systems is likely, then a conveyance system must be provided to convey the concentrated runoff across the downstream properties to an acceptable discharge point (i.e., an enclosed drainage system or open drainage feature where concentrated runoff can be discharged without significant adverse impact).

Minimum Requirement #5: Onsite Stormwater Management

Project employs onsite stormwater management BMPs to infiltrate, disperse, and retain
stormwater runoff onsite to the maximum extent feasible without causing flooding or erosion
impact.

- The following BMPs have been applied to the maximum extent feasible. If not applied, the proponent has documented why the BMPs are not feasible or necessary:
 - a. Non-Pollution Generating Impervious Surfaces (NPGIS):
 - a. Downspout infiltration systems (Volume III, Section 3.1.1)
 - b. Downspout dispersion systems (Volume III, Section 3.1.22)
 - b. Pollution Generating Impervious Surfaces (PGIS):
 - a. Concentrated flow dispersion, BMP T5.11 (Volume V, Section 5.3.1)
 - b. Sheet flow dispersion, BMP T5.12 (Volume V, Section 5.3.1)
 - c. All land disturbed by the project (except for areas covered by impervious surfaces):
 - a. Post-Construction Soil Quality and Depth, BMP T5.13 (Volume V, Section 3.14). Note that there are no feasibility constraints for this required BMP.

Minimum Requirement #6: Runoff Treatment

	· · · · · · · · · · · · · · · · · · ·
Pro	oject Threshold: A stormwater treatment facility (or facilities) must be constructed only if:
	Total effective, pollution-generating impervious surface (PGIS) is 5,000 sq ft or more in a Threshold Discharge Area (TDA), or
a.	The total of PGIS surfaces is three-quarters of an acre or more in a TDA and there is a surface discharge in a natural or man-made conveyance system from the site. (Section 2.5.6)
b.	PGIS surfaces that are dispersed in accordance with the dispersion BMPs in Volume V, Section 5.3.1 are not considered effective pollution generating impervious surfaces.
	Calculations have been provided to confirm that the designed facility is in agreement with the facility sizing in the SWMMWW including design storm and design criteria listed in Volume V.
	If the project discharges directly (or, indirectly through a municipal storm sewer system, but not through a creek) to one of the following waterways, only Basic Treatment is required:
	a. This list will be Municipality specific. See Volume I, Appendix I-C for a list of Basic Treatment Receiving Waters and insert all that apply to your community.

	Enhanced Treatment ¹ is provided for reduction of dissolved metals (Volume I, Section 2.4.6) because the project:
	a. Discharges to a fish-bearing stream, lake, or to waters or conveyance systems tributary to a fish-bearing stream or lake (excluding basic treatment waters identified above); and
	b. Is an industrial project site, or
	c. A commercial project site, or
	d. A multifamily project site, or
	e. A high design year average daily traffic road (additional conditions apply, see Volume I, page 4-9).
	Project does not discharge untreated stormwater from pollution-generating impervious surfaces to groundwater. Direct discharge of untreated stormwater from pollution-generating impervious surfaces to groundwater must be prohibited.
	Project provides necessary Phosphorus Treatment.
	Project is a high-use site that provides Oil Treatment.
	Project establishes a maintenance schedule in accordance with SWMMWW Volume V.
Mi	nimum Requirement #7: Flow Control
$\frac{P}{s}$	roject Threshold: A flow control facility and/or land management BMPs that will achieve the tandard flow control requirement for Western Washington is required if a project's:
a	Total effective, impervious surface is 10,000 sq ft or more in a Threshold Discharge Area (TDA), or
b	The total of PGIS surfaces is three-quarters of an acre or more of native vegetation to lawn or landscape, or convert 2.5 acres or more of native vegetation to pasture in a TDA from which there is a surface discharge in a natural or man-made conveyance system, or
C	The project, through a combination of effective impervious surfaces and converted pervious surfaces cause a 0.1 cubic foot per second (cfs) increase in the 100-year flow frequency from a TDA as estimated by the WWHM or other approved model. (Section 2.5.7)
	Verify if the project discharges directly or indirectly through a municipal stormwater system with sufficient capacity (but not through a creek) into one of the following flow control-exempt receiving waters. If so, no flow control facilities are required. (Additional restrictions also apply, see Volume I, Section 2.4.7): a. This list will be Municipality specific. See Volume I, Appendix I-E for a list of
	a. This list will be Municipality specific. See volume 1, Appendix 1-E for a list of Flow Control-Exempt Surface Waters and insert all that apply to your community.

¹ Developments with a mix of land use types shall apply Enhanced Treatment requirements when the runoff from the areas subject to Enhanced Treatment comprise at least 50% of the total runoff within a TDA.

☐ Calculations confirm that the designed facility is in agreement with the facility sizing in the WWHM.
Minimum Requirement #8: Wetlands Protection
<u>Project applicability</u> : If the project discharges into a wetland, either directly or indirectly through a conveyance system, this MR applies. If not, this MR does not apply.
The project demonstrates maintenance of hydrologic conditions, hydrophytic vegetation, and substrate characteristics necessary to support existing and designated wetland uses. The hydrologic analysis shall use the existing land cover condition to determine the existing hydrologic conditions unless directed otherwise by a regulatory agency with jurisdiction.
TIP: Consult Volume I, Appendix I-D, "Wetlands and Stormwater Management Guidelines" Guide Sheet 2B when discharging to natural wetlands and wetlands constructed as mitigation.
Minimum Requirement #9: Basin/Watershed Planning ²
If a Municipality approved community plan or basin plan exists for the project area, confirm proponent has consulted with the Municipality to determine whether equivalent or more stringent minimum requirements for erosion control, source control, treatment, and O&M, are identified in the basin/watershed plan.
NOTE: All basin plans which change the default standards must be approved by Ecology and adopted by all municipalities in the basin.
Minimum Requirement #10: Operation and Maintenance
Includes an Operation and Maintenance plan meeting the requirements of Volume I, Section 2.5.10 and Volume V, Section 4.6 for all proposed stormwater facilities and BMPs. Identifies the party (or parties) responsible for maintenance and operation.
☐ If either Minimum Requirement #6 or #7 is included, includes an Operations and Maintenance Manual.

² The Manual refers to Basin Plans in Minimum Requirement #9, while Appendix 1 of the Municipal Stormwater Permit refers to Operations and Maintenance in Minimum Requirement #9.

Standard Construction Stormwater Pollution Prevention Plan (CSWPPP)

Standard City of Aberdeen Construction Stormwater Pollution Prevention Plan (CSWPPP)

A. Applicability:

- 1. Projects that add or replace less than 2,000 square feet of impervious surface or disturb less than 7,000 square feet of land are not required to prepare a Construction SWPPP, but must consider all of the twelve Elements of Construction Stormwater Pollution Prevention and develop controls for all elements that pertain to the project site.
- 2. Projects in which the new, replaced, or new plus replaced impervious surfaces total 2,000 square feet or more, or disturb 7,000 square feet or more of land must prepare a Construction SWPP Plan (SWPPP) as part of the Stormwater Site Plan. Each of the twelve elements must be considered and included in the Construction SWPPP unless site conditions render the element unnecessary and the exemption from that element is clearly justified in the narrative of the SWPPP.

B. Project Information:

1. Responsible Party

Name:		
Mailing Address:		
Email:		
Phone (Day):		
Phone (Evening):		
Project Description:		
Location:		
	•	

- 3. New, replaced, or new plus replaced impervious surfaces
 - Less than 2,000ft² (no further information needed sign certification at end of form)
 - 2,000ft² (complete remainder of SWPPP and sign certification at end of form)

Land disturbance

- Less than 7,000ft² and less than 2,000ft² impervious (no further information needed sign certificate at end of form)
- 7,000ft² or greater (complete remainder of SWPPP and sign certification at end of form)

	5.	If construction site is one acre or larger, the project requires a Certified Erosion and Sediment Control Specialist
		Name:
		Phone (Day):
		Phone (Day):Phone (Evening):
C.		Elements of Construction Stormwater Pollution Prevention Plan (SWPPP)
		Pre-application Meeting It is recommended that the applicant have a pre-application meeting with city stormwater staff prior to submitting this form to discuss any special concerns or requirements
		Element 1: Mark Clearing Limits
	•	Prior to beginning land disturbing activities, including clearing and grading, all clearing limits, sensitive areas and their buffers, and trees that are to be preserved within the construction area shall be clearly marked, both in the field and on the plans, to prevent damage and offsite impacts.
	•	Plastic, metal, or stake wire fence may be used to mark the clearing limits.
	•	The duff layer, native top soil, and natural vegetation shall be retained in an undisturbed state to the maximum extent practicable. If it is not practicable to retain the duff layer in place, it should be stockpiled on-site, covered to prevent erosion, and replaced immediately upon completion of the ground disturbing activities.
		Additional comments:
		City comments:
		Element 2: Establish Construction Access
	•	Construction vehicle access and exit shall be limited to one route, if possible, or two linear projects such as roadways where more than one access is necessary

- for large equipment maneuvering.
- Access points shall be stabilized with a pad of quarry spalls or crushed rock prior to traffic leaving the construction site to minimize the tracking of sediment onto public roads.
- Wheel wash or tire baths should be located on-site, if applicable.

- If sediment is tracked off site, public roads shall be cleaned thoroughly at the end of each day, or more frequently during wet weather, if necessary to prevent sediment from entering waters of the state. Sediment shall be removed from roads by shoveling or pickup sweeping and shall be transported to a controlled sediment disposal area. Street washing will be allowed only after sediment is removed in this manner.
- Street wash wastewater shall be controlled by pumping back on-site, or
 otherwise be prevented from discharging into systems tributary to state surface
 waters.

Additional comments: _	 	
	 -	
City comments:		

Element 3: Control Flow Rates

- Properties and waterways downstream from development sites shall be
 protected from erosion due to increases in the volume, velocity, and peak flow
 rate of stormwater runoff from the project, as required by the city.
- Downstream analysis is necessary if changes in flows could impair or alter conveyance systems, stream banks, bed sediment or aquatic habitat.
- Where stormwater retention/detention facilities are required they should be constructed as one of the first steps in grading. Detention facilities where required shall be functional prior to construction of site improvements (e.g. impervious surfaces)
- The city may require pond designs that provide additional stormwater flow control if necessary to address local conditions or to protect properties and waterways downstream from erosion due to increases in the volume, velocity, and peak flow rate of stormwater runoff from the project site.
- If permanent infiltration ponds are used for flow control during construction, these facilities should be protected from siltation during the construction phase.

Additional comments:	 	
City comments:	 	

Element 4: Install Sediment Controls

- Prior to leaving a construction site, or prior to discharge to an infiltration facility, stormwater runoff from disturbed areas shall pass through a sediment pond or other appropriate sediment removal BMP. Runoff from fully stabilized areas may be discharged without a sediment removal BMP, but must meet the flow control performance standard of Element #3, bullet #1. Full stabilization means concrete or asphalt paving; quarry spalls used as ditch lining; or the use of rolled erosion products, a bonded fiber matrix product, or vegetative cover in a manner that will fully prevent soil erosion. The city shall inspect and approve areas stabilized by means other than pavement or quarry spalls.
- Sediment ponds, vegetated buffer strips, sediment barriers or filters, dikes, and
 other BMPs intended to trap sediment on-site shall be constructed as one of the
 first steps in grading. These BMPs shall be functional before other land
 disturbing activities take place.
- Earthen structures such as dams, dikes, and diversions shall be seeded and mulched according to the timing indicated in Element #5.
- BMPs intended to traps sediment on site must be located in a manner to avoid interference with the movement of juvenile salmonids attempting to enter offchannel areas or drainages, often during non-storm events, in response to rain event changes in stream elevation or wetted area.

Additional comments:		
City comments:	-	·

Element 5: Stabilize Soils

- All exposed and unworked soils shall be stabilized by application of effective BMPs that protect the soil from the erosive forces of raindrop impact and flowing water, and wind erosion.
- From October 1 through April 30, no soils shall remain exposed and unworked for more than 2 days. From May 1 to September 30, no soils shall remain exposed and unworked for more than 7 days. This condition applies to all soils on site, whether at final grade or not. These time limits may be adjusted by the city current weather forecasts justifies a different standard.
- Soils shall be stabilized at the end of the shift before a holiday or weekend if needed based on the weather forecast.

- Applicable practices include, but are not limited to, temporary and permanent seeding, sodding, mulching, plastic covering, soil application of polyacrylamide (PAM), the early application of gravel base on areas to be paved, and dust control.
- Soil stabilization measures selected should be appropriate for the time of year, site conditions, estimated duration of use, and potential water quality impacts that stabilization agents may have on downstream waters or ground water.
- Soil stockpiles must be stabilized from erosion, protected with sediment trapping measures, and when possible, be located away from the drain inlets, waterways and drainage channels.
- Linear construction activities, including right-of-way and easement clearing, roadway development, pipelines, and trenching for utilities, shall be conducted to meet the soil stabilization requirement. Contractors shall install the bedding materials, roadbeds, structures, pipelines, or utilities and re-stabilize the disturbed soils (unless current weather forecasts justifies a different standard) so that:
- From October 1 through April 30 no soils shall remain exposed and unworked for more than 2 days; and
- From May 1 to September 30, no soils shall remain exposed and unworked for more than 7 days.

Additional comments	•		
City comments:			

Element 6: Protect Slopes

- Cut and fill slopes shall be designed and constructed in a manner that will minimize erosion.
- Consider soil type and its potential for erosion.
- Reduce slope runoff velocities by reducing the continuous length of slope with terracing and diversions, reduce slope steepness, and roughen slope surfaces.
- Off-site stormwater (run-on) shall be diverted away from slopes and disturbed areas with interceptor dikes and/or swales. Off-site stormwater should be managed separately from stormwater generated on the site.

- At the top of slopes, collect drainage in pipe slope drains or protected channels to prevent erosion. Temporary pipe slope drains shall handle the peak flow from a 10 year, 24 hour event assuming Type 1A rainfall distribution. Alternatively, the 10-year and 25-year, 1-hour flow rates indicated by an approved continuous runoff model, increased by a factor of 1.6, may be used. Consult the local drainage requirements for sizing permanent pipe slope drains.
- Provide drainage to remove ground water intersecting the slope surface of exposed soil areas.
- Excavated material shall be placed on the uphill side of trenches, consistent with safety and space considerations.
- Check dams shall be placed at regular intervals within channels that are cut down a slope.
- Stabilize soils on slopes, as specified in Element #5.

Additional comments:	, <u></u>	 · · · · · · · · · · · · · · · · · · ·	
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City comments:		 	
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Element 7: Protect Drain Inlets

- All storm drain inlets made operable during construction shall be protected so that stormwater runoff shall not enter the conveyance system without first being filtered or treated to remove sediment.
- All approach roads shall be kept clean. All sediment and street wash water shall
 not be allowed to enter storm drains without prior and adequate treatment unless
 treatment is provided before the storm drain discharges to water of the State.
- Inlets should be inspected weekly, at a minimum and daily during storm events. Inlet protection devices should be cleaned or removed and replaced when sediment has filled one-third of the available storage (unless a different standard is specified by the product manufacturer)

Additional comments:	 	
City comments:		

Element 8: Stabilize Channels and Outlets

- All temporary on-site conveyance channels shall be designed, constructed and stabilized to prevent erosion from the expected peak 10 minute velocity of flow from a Type 1A, 10-year and 24-hour frequency storm for the development condition. Alternatively, the 10-year, 1-hour flow rate indicated by an approved continuous runoff model, increased by a factor of 1.6, may be used.
- Stabilization, including armoring material, adequate to prevent erosion of outlets, adjacent stream banks, slopes and downstream reaches shall be provided at the outlets of all conveyance systems.

Additional comments: _	 	
City comments:		

Element 9: Control Pollutants

- All pollutants, including waste materials and demolition debris, that occur onsite shall be handled and disposed of in a manner that does not cause contamination of stormwater. Woody debris may be chopped and spread on site.
- Cover, containment, and protection from vandalism shall be provided for all chemicals, liquid products, petroleum products, and non-inert wastes present on the site (see Chapter 173-304 WAC for the definition of inert waste). On-site fueling tanks shall include secondary containment.
- Maintenance and repair of heavy equipment and vehicles involving oil changes, hydraulic system drain down, solvent and de-greasing cleaning operations, fuel tank drain down and removal, and other activities which may result in discharge or spillage of pollutants to the ground or into stormwater runoff must be conducted using spill prevention measures, such as drip pans. Contaminated surfaces shall be cleaned immediately following any discharge or spill incident. Emergency repairs may be performed on-site using temporary plastic placed beneath, and, if raining, over the vehicle.
- Wheel wash or tire bath wastewater, shall be discharged to a separate on-site treatment system or to the sanitary sewer.
- Application of agricultural chemicals, including fertilizers and pesticides, shall be conducted in a manner and at application rates that will not result in loss of chemical to stormwater runoff. Manufacturers' recommendations for application rates and procedures shall be followed.

- BMPs shall be used to prevent or treat contamination of stormwater runoff by pH modifying sources. These sources include, but are not limited to, bulk cement, cement kiln dust, fly ash, new concrete washing and curing waters, waste streams generated from concrete grinding and sawing, exposed aggregate processes, and concrete pumping and mixer without waters. Stormwater discharges shall not cause or contribute to a violation of the water quality standard for pH in the receiving water.
- Construction sites with significant concrete work shall adjust the pH of stormwater if necessary to prevent violations of water quality standards.

Additional comments:	
City comments:	

Element 10: Control De-Watering

- Foundation, vault, and trench de-watering water, which has similar characteristics to stormwater runoff at the site, shall be discharged into a controlled conveyance system prior to discharge to a sediment trap or sediment pond. Channels must be stabilized, as specified in Element #8.
- Clean, non-turbid de-watering water, such as well-point ground water, can be
 discharged to systems tributary to state surface waters, as specified in Element
 #8, provided the de-watering flow does not cause erosion or flooding of
 receiving waters. These clean waters should not be routed through a stormwater
 sediment pond.
- Other disposal options, depending on site constraints, may include: 1) infiltration, 2) transport off-site in a vehicle, such as a vacuum flush truck, for legal disposal in a manner that does not pollute state waters, 3) Ecology-approved on-site chemical treatment or other suitable treatment technologies, 4) sanitary sewer discharge with local sewer district approval, if there is no other option, or 5) use of sedimentation bag with outfall to a ditch or swale for small volumes of localized dewatering.

Additional comments:		
City comments:	 	

Element 11: Maintain BMPs

- All temporary and permanent erosion and sediment control BMPs shall be maintained and repaired as needed to assure continued performance of their intended function. All maintenance and repair shall be conducted in accordance with BMP specifications.
- All temporary erosion and sediment control BMPs shall be removed within 30 days after final site stabilization is achieved or after the temporary BMPs are no longer needed. Trapped sediment shall be removed or stabilized on site. Disturbed soil areas resulting from removal of BMPs or vegetation shall be permanently disabled.

Additional comments:	 	 	·
City comments:			
Oity commons.	 	 	

Element 12: Manage the Project

- Phasing of Construction Development projects shall be phased where feasible in order to prevent soil erosion and, to the maximum extent practicable, the transport of sediment from the site during construction. Revegetation of exposed areas and maintenance of that vegetation shall be an integral part of the clearing activities for any phase.
- Clearing and grading activities for development shall be permitted only if conducted pursuant to an approved site development plan (e.g. subdivision approval) that establishes permitted areas of clearing, grading, cutting, and filling. When establishing these permitted clearing and grading areas, considering should be given to minimizing removal of existing trees and minimizing disturbance/compaction of native soils except as needed for building purposes. These permitted clearing and grading areas and any other areas required to preserve critical or sensitive areas, buffers, native growth protection easements, or tree retention areas as may be required by the city, shall be delineated on the site plans and the development site.
- Seasonal Work Limitations From October 1 through April 30, clearing, grading, and other soil disturbing activities shall only be permitted if shown to the satisfaction of the city that silt-laden runoff will be prevented from leaving the site through a combination of the following:
 - 1. Site conditions including existing vegetative coverage, slope, soil type and proximity to receiving waters; and
 - 2. Limitations on activities and the extent of disturbance areas; and

- 3. Proposed erosion sediment control measures
- Based on the information provided and/or local weather conditions, the city may expand or restrict the seasonal limitation on site disturbance. The city shall take enforcement action such as a notice of violation, administrative order, penalty, or stop-work order under the following circumstances:
 - o If, during the course of any construction activity or soil disturbance during the seasonal limitation period, sediment leaves the construction site causing a violation of the surface quality standard; or
 - o If clearing and grading limits or erosion and sediment control measures shown in the approved plan are not maintained.

The following activities are exempt from the seasonal clearing and grading limitations:

- 1. Routine maintenance and necessary repair of erosion and sediment control BMPs;
- 2. Routine maintenance of public facilities or existing utility structures that do not expose the soil or result in the removal of the vegetation cover to soil; and
- 3. Activities where there is one hundred percent infiltration of surface water runoff within the site in approved and installed erosion and sediment control facilities.
- Coordination with Utilities and Other Contractors The primary project
 proponent shall evaluate, with input from utilities and other contractors, the
 stormwater management requirements for the entire project, including the
 utilities, when preparing the Construction SWPPP.
 - Inspection and Monitoring All BMPs shall be inspected, maintained, and repaired as needed to assure continued performance of their intended function. Site inspections shall be conducted by a person who is knowledgeable in the principles and practices of erosion and sediment control. The person must have the skills to 1) assess the site conditions and construction activities that could impact the quality of stormwater, and 2) assess the effectiveness of erosion and sediment control measures used to control the quality of stormwater discharges.
- For construction sites one acre or larger that discharge stormwater to surface waters of the state, a Certified Erosion and Sediment Control Specialist shall be identified in the Construction SWPPP and shall be on-site or on-call at all times. Certification may be obtained through an approved training program that meets the erosion and sediment control training standards established by Ecology.

Whenever inspection and/or monitoring reveals that the BMPs identified in the Construction SWPPP are inadequate, due to the actual discharge of or potential to discharge a significant amount of any pollutant, appropriate BMPs or design changes shall be implemented as soon as possible.

- Maintaining an Updated Construction SWPPP The Construction SWPPP shall be retained on site or within reasonable access to the site.
- The SWPPP shall be modified whenever there is a significant change in the design, construction, operation, or maintenance at the construction site that has, or could have, a significant effect on the discharge of pollutants to waters of the state.
- The SWPPP shall be modified, if during inspections or investigations conducted by the owner/operate, or the applicable local or state regulatory authority, it is determined that the SWPPP is ineffective in eliminating or significantly minimizing pollutants in stormwater discharges from the site. The SWPPP shall be modified as necessary to include additional or modified BMPs designed to correct problems identified. Revisions to the SWPPP shall be completed within seven (7) calendar days following the inspection.

		Additional comments:		_
		City comments:		
D.	Certifi	cation		
		I,, read and agree to abide by the pr	the responsible party for this project, have rovisions of this SWPPP.	е
		(Signature)	(Date)	
		(Print Name)		

Stormwater Construction Site Inspection Report

Stormwater Construction Site Inspection Report

Stormwater Constitution Site Inspector 2-5				
G	eneral Information			
Project Name				
NPDES Tracking No.	Location			
Date of Inspection	Start/End Time			
Inspector's Name(s)				
Inspector's Title(s)				
Inspector's Contact Information				
Inspector's Qualifications	·			
CSWPPP Ref #				
Describe present phase of				
construction				
Type of Inspection:				
☐ Regular ☐ Pre-storm event ☐ During	storm event Post-storm event			
V	Veather Information			
Has there been a storm event since the last inspec	tion? □Yes □No			
If yes, provide:				
Storm Start Date & Time: Storm Duration (hrs): Approximate Amount of Precipitation (in):			
Weather at time of this inspection?				
Clear Cloudy Rain Sleet F	og 🖸 Snowing 📮 High Winds			
	nperature:			
Have any discharges occurred since the last inspection? □Yes □No				
If yes, describe:				
Are there any discharges at the time of inspection	n? □Yes □No			
If yes, describe:				

Site-specific BMPs

Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required BMPs at your site.

Describe corrective actions initiated, date completed, and note the person that completed the work in the

Corrective	Action	Log

	BMP	BMP	BMP	Corrective Action Needed and Notes
		Installed?	Maintenance	
			Required?	
1		☐Yes ☐No	□Yes □No	
2		☐Yes ☐No	□Yes □No	
3		☐Yes ☐No	□Yes □No	
4		☐Yes ☐No	□Yes □No	
5		☐Yes ☐No	□Yes □No	
6		☐Yes ☐No	☐Yes ☐No	
7		☐Yes ☐No	☐Yes ☐No	
8		☐Yes ☐No	□Yes □No	
9		☐Yes ☐No	□Yes □No	
10		☐Yes ☐No	□Yes □No	
11		☐Yes ☐No	☐Yes ☐No	
12		☐Yes ☐No	☐Yes ☐No	

	BMP	ВМР	BMP ·	Corrective Action Needed and Notes
		Installed?	Maintenance	
			Required?	
13		☐Yes ☐No	□Yes □No	
14		□Yes □No	☐Yes ☐No	·
15		☐Yes ☐No	□Yes □No	
16		□Yes □No	□Yes □No	
17		□Yes □No	□Yes □No	
18		□Yes □No	□Yes □No	
19		□Yes □No	□Yes □No	
20		□Yes □No	☐Yes ☐No	

Overall Site Issues

Below are some general site issues that should be assessed during inspections. Customize this list as needed for conditions at your site.

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	□Yes □No	□Yes □No	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	□Yes □No	□Yes □No	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	□Yes □No	□Yes □No	
4	Are discharge points and receiving waters free of any sediment deposits?	□Yes □No	□Yes □No	
5	Are storm drain inlets properly protected?	□Yes □No	□Yes □No	
6	Is the construction exit preventing sediment from being tracked into the street?	□Yes □No	□Yes □No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	□Yes □No	□Yes □No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	□Yes □No	□Yes □No	

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious	□Yes □No	□Yes □No	
	material?	□Yes □No	☐Yes ☐No	
0	Are materials that are potential stormwater contaminants stored inside or under cover?	Yes UNO	Lifes Lino	
1	Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	□Yes □No	□Yes □No	
2	(Other)	□Yes □No	□Yes □No	
			Non-Comp	liance
Des	cribe any incidents of non-o	compliance not de		liance
es	cribe any incidents of non-o			
Des	"I certify under penalty o supervision in accordance the information submitted directly responsible for g belief, true, accurate, and including the possibility of	f law that this doce with a system ded. Based on my in athering the information of fine and impris	ERTIFICATION cument and all atta esigned to assure ti quiry of the person mation, the inform ware that there are onment for knowin	STATEMENT chments were prepared under my direction or hat qualified personnel properly gathered and evaluated n or persons who manage the system, or those persons lation submitted is, to the best of my knowledge and esignificant penalties for submitting false information, ng violations."
Des	"I certify under penalty o supervision in accordance the information submitted directly responsible for g belief, true, accurate, and including the possibility of	f law that this doce with a system ded. Based on my in athering the information of fine and impris	ERTIFICATION cument and all atta esigned to assure ti quiry of the person mation, the inform ware that there are onment for knowin	STATEMENT chments were prepared under my direction or hat qualified personnel properly gathered and evaluated n or persons who manage the system, or those persons lation submitted is, to the best of my knowledge and exignificant penalties for submitting false information,

Appendix G – Stormwater Ordinance

ORDINANCE NO.	
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AN ORDINANCE RELATING TO STORM AND SURFACE WATER MANAGEMENT, REPEALING CHAPTER 13.68 OF THE ABERDEEN MUNICIPAL CODE, ADOPTING A NEW CHAPTER 13.70, AMENDING ORDINANCE 5971, AND REPEALING ORDINANCES 6177, 6238, 6280, 6324, 6334, 6453.

WHEREAS, the state of Washington has imposed new state-wide storm and surface water management regulations that require updates to the city's current utility code to comply with the mandatory state standards; NOW, THEREFORE,

BE IT ORDAINED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF ABERDEEN:

SECTION 1. CODE CHAPTER REPEALED. Chapter 13.68 of the Aberdeen Municipal Code, being Ordinance 6177 as amended by Ordinances 6238, 6280, 6334, and 6453, is hereby repealed and replaced by a new Chapter 13.70 AMC as adopted in Section 2 of this ordinance.

SECTION 2. NEW CODE SECTION ADOPTED. The following Chapter 13.70 – "Storm and Surface Water Management" is hereby added to the Aberdeen Municipal Code:

Chapter 13.70 STORM AND SURFACE WATER MANAGEMENT

Sections:

13.70.010 Purpose.

13.70.020 Definitions.

13.70.030 Utility established.

13.70.040 Transfer of property.

13.70.050 Storm and surface water fund created.

13.70.060 Setting of fees and charges.

13.70.070 Applicability.

13.70.080 Review and approval of storm and surface water drainage plans.

13.70.090 Exemptions.

- 13.70.100 Variances.
- 13.70.110 Permit.
- 13.70.120 Permit conditions.
- 13.70.130 Minimum control and management requirements.
- 13.70.140 Design criteria.
- 13.70.150 Maintenance agreement.
- 13.70.160 Inspection.
- 13.70.170 Preventive maintenance.
- 13.70.180 Penalties.
- 13.70.190 Cross connections prohibited.
- 13.70.200 Illicit discharges prohibited.
- 13.70.210 Easements.
- 13.70.220 Appeals.

13.70.010 Purpose.

The purpose of this chapter is to protect, maintain, and enhance the public health, safety, and general welfare by establishing minimum requirements and procedures to control the adverse impacts associated with increased storm and surface water runoff. Proper management of storm and surface water runoff will minimize damage to public and private property, reduce the effects of development on land and stream channel erosion and sedimentation, assist in the attainment and maintenance of water quality standards, reduce local flooding, and maintain post-development, as nearly as possible, the predevelopment runoff characteristics, while meeting the Stormwater Management Manual for Western Washington as adopted by the Department of Ecology. This chapter also establishes a Storm and Surface Water System as a utility service of the city.

13.70.020 Definitions.

For the purposes of this chapter, the following definitions describe the meaning of the terms used in this chapter:

- A. "Adverse impact" means any deleterious effect on water or wetlands, including their quality, quantity, surface area, species composition, aesthetics or usefulness for human or natural uses which are or may potentially be harmful or injurious to human health, welfare, safety or property, to biological productivity, diversity or stability, or which unreasonably interfere with the enjoyment of life or property, including outdoor recreation.
- B. "Agricultural land management practices" means those methods and procedures used in the cultivation of land in order to further crop production and conservation of related soil and water resources.
- C. "Applicant" means any person, firm or governmental agency who executes the necessary forms to procure official approval of a project or a permit to carry out construction of a project.

- D. "Aquifer" means a porous water-bearing geologic formation generally restricted to materials capable of yielding an appreciable supply of water.
- E. "City engineer" means the city of Aberdeen Public Works Director or his or her designee.
- F. "Clearing" means the removal of trees and brush from the land, but shall not include the ordinary mowing of grass.
- G. "Detention structure" means a permanent structure designed to store runoff for discharge at rates approximating what would have occurred under predevelopment conditions.
- H. "Develop land" means to change the runoff characteristics of a parcel of land in conjunction with residential, commercial, industrial or institutional construction or alteration.
- I. "Developer" means a person, group or company engaged in land or property development or proposed development.
- J. "Director" or "Public Works Director" means the city of Aberdeen Public Works Director or his or her designee.
- K. "Drainage area" means that area contributing runoff to a single point measured in a horizontal plane which is enclosed by a ridge line.
- L. "Engineer" means a civil engineer or civil engineering firm that has been retained or employed by the city to perform engineering services.
- M. "Easement" means a grant or reservation by the owner of land for the use of such land by others for specific purpose(s), and which must be included in the conveyance of land affected by such easement.
- N. "Exemption" means those land development activities that are not subject to the storm and surface water management requirements contained in this chapter.
- O. "Flow attenuation" means detaining or retaining runoff to reduce the peak discharge.
- P. "Grading" means any act by which soil is cleared, stripped, stockpiled, excavated, scarified, filled or any combination thereof.
 - Q. "Infiltration" means the passage or movement of water into the soil surface.
- R. "Off-site storm and surface water management" means the design and construction of a facility necessary to control storm and surface water from more than one development.
- S. "On-site storm and surface water management" means the design and construction of systems necessary to control storm and surface water within an immediate development.
- T. "Retention structure" means a permanent structure that provides for the storage of runoff by means of a permanent pool of water or infiltration.
- U. "Sediment" means soils or other surficial materials transported or deposited by the action of wind, water, ice or gravity as a product of erosion.
- V. "Site" means any tract, lot or parcel of land or combination of tracts, lots or parcels of land which are in one ownership, or are contiguous and in diverse ownership where development is to be performed as part of a unit, subdivision or project.

- W. "Stabilization" means the prevention of soil movement by any of various vegetative and/or structural means.
 - X. "Storm and surface water management" means:
- 1. For quantitative control, a system of vegetative and structural measures that control the increased volume and rate of surface runoff caused by manmade changes to the land; and
- 2. For qualitative control, a system of vegetative, structural and other measures that reduce or eliminate pollutants that might otherwise be carried by surface runoff.
- Y. "Storm drainage plan" means a set of drawings or other documents submitted by a person as a prerequisite to obtaining a storm drainage permit, which contains all of the information and specifications pertaining to storm and surface water management.
- Z. "Stripping" means any activity which removes the vegetative surface cover, including tree removal, clearing, grubbing and storage, or removal of topsoil.
- AA. "Variance" means the modification of the minimum storm and surface water management requirements for specific circumstances where strict adherence of the requirements would result in unnecessary hardship and not fulfill the intent of this chapter.
- BB. "Watercourse" means any natural or artificial stream, river, creek, ditch, channel, swale, conduit, culvert, drain, or ravine, in and including any area adjacent thereto which is subject to inundation by reason of overflow or flood water.
 - CC. "Watershed" means the total drainage area contributing runoff to a single point.
- DD. "Wetlands" means an area that has saturated soils or periodic high groundwater levels and vegetation adapted to wet conditions and periodic flooding.

13.70.030 Utility established.

For the purpose of carrying out the provisions of this chapter there is created and established a storm and surface water drainage utility for the city of Aberdeen pursuant to chapters 35.67, 35.92, 90.03, and 90.54 RCW, and by Article 11, Section 11, of the constitution of the state of Washington. The primary purpose of this utility shall be the planning, design, construction, maintenance, administration, and operation of all city storm and surface water facilities and for overseeing the design, construction, and maintenance of improvements on private property where these may affect storm and surface water management. The utility shall be administered by the public works director. The city council is authorized to make funds available to the utility by appropriation, borrowing, or by other means in accordance with laws of Washington state, for the establishment maintenance, and operation of this utility.

13.70.040 Transfer of property.

All properties, property rights, and interests of every kind or nature owned or held by the city, however acquired, insofar as they relate to or concern storm or surface water facilities, are hereby transferred to the Storm and Surface Water Utility, including by way of examples and not limitation, all properties, rights and interest acquired by adverse possession or by

prescription in and to the drainage and storage of storm or surface waters over and under lands, watercourses, streams, ponds, and estuaries to the full extent of inundation caused by the largest storm or flood condition.

13.70.050 Storm and surface water fund created.

- A. Pursuant to state law, the city hereby declares its intention to designate the city's storm and surface water system as a utility and enterprise activity of the city to be supported all or in part by the imposition of user charges on all parcels of property within the city which discharge stormwater to the city's storm drainage facilities or are otherwise served by the city's storm drainage facilities.
- B. The city hereby establishes a special fund within the city's fiscal system to be known as "The Storm and Surface Water Fund", hereinafter referred to as the fund.
- C. All revenues from storm drainage user charges and other storm drainage related fees and charges as may be adopted by resolution shall be deposited to the fund.
- D. Expenditures from the Fund shall be limited to those expenditures for the improvement, repair, operation, maintenance, and administration of the storm drainage facility as defined by the public works director of the city of Aberdeen. The fund may also transfer funds to the general fund of the city that represent the reasonable and proportionate share of the cost of general city government support of the utility not covered by direct payments from the fund.

13.70.060 Setting of fees and charges.

- A. The city council shall by resolution establish a system of user charges for all parcels in the city.
- B. To the extent practicable, user charges shall be based on each parcel's expected rate and volume of stormwater runoff from a parcel.
- C. The city council may by resolution establish a charge for the connection of any parcel to the city's storm drainage facilities to reflect that parcel's fair share of the cost of the existing city storm drainage facilities serving the parcel.
- D. The public works director shall establish appropriate fees for the review and inspection of storm drainage facilities proposed and constructed by private development.

13.70.070 Applicability.

It is not intended that this chapter repeal, abrogate, or impair any existing regulations, easements, covenants, or deed restrictions. The provisions of this chapter shall be held to be minimum requirements in their interpretation and application and shall be liberally construed to serve the purposes of this chapter. When any provision of any other chapter of the city regulations conflicts with this chapter, that which provides more environmental protection shall apply unless specifically provided otherwise in this chapter.

13.70.080 Review and approval of storm and surface water drainage plans.

A storm and surface water drainage plan or application for a variance shall be submitted to the city engineer by the developer for review and approval for any proposed development, unless otherwise exempted. The storm and surface water drainage plan shall be accompanied by supporting computations, drawings and sufficient information describing the manner, location and type of measures in which storm and surface water runoff will be managed from the entire development. The information supplied by the developer shall be in conformance with the Stormwater Management Manual for Western Washington as prepared by the Department of Ecology. The developer is responsible for submitting a storm and surface water management plan which meets the design requirements provided by this chapter. No person shall develop any land for residential, commercial, industrial or institutional uses without having provided for appropriate storm and surface water management measures that control or manage runoff from such developments.

13.70.090 Exemptions.

- A. The following development activities are exempt from the provisions of this chapter and the requirements of providing storm and surface water management.
 - 1. Agricultural land management activities;
- 2. Additions or modifications to existing single-family detached residential structures;
 - 3. Developments that do not disturb over five thousand square feet of land area; or
 - 4. City of Aberdeen owned facilities and streets.

13.70.100 Variances.

The city engineer may grant a written variance from any requirement of this chapter if there are exceptional circumstances applicable to the site such that strict adherence to the provisions of this chapter will result in unnecessary hardship and not fulfill the intent of this chapter. A written request for variance shall be provided to the city engineer and shall state the specific variances sought and reasons for their granting. The city shall not grant a variance unless and until sufficient specific reasons justifying the variance are provided by the person developing land.

13.70.110 Permits – plan approval required.

A grading/fill permit, building permit, or other development permit may not be issued for any parcel or lot unless a storm and surface water drainage plan has been approved by the city engineer. The approved plan shall be become part of the permit and be enforced as an element of any development permit issued by the city.

13.70.120 Plan approval - conditions.

In granting the plan approval, the city engineer may impose such conditions thereto as may be deemed necessary to ensure compliance with the provisions of this chapter and the preservation of public health and safety. Any grading/filling permit, building permit, or other

development permit issued by the city may be suspended or revoked, after written notice is given to the permittee, for any violations of the approved storm and surface water drainage plan.

13.70.130 Minimum control and management requirements.

The minimum storm and surface water control and management requirements shall be in accordance with standards adopted by the city and included in the Stormwater Management Manual for Western Washington.

13.70.140 Design criteria.

Storm and surface water systems shall be designed and constructed in accordance with the standards and specifications as set forth in the Standard Specifications for Road, Bridge and Municipal Construction published by the American Public Works Association (APWA) and the Washington State Department of Transportation, and Stormwater Management Manual for Western Washington published by the Washington State Department of Ecology.

13.70.150 Maintenance agreement.

Prior to issuance of a storm and surface water utility permit, the city shall require the applicant to execute an inspection and maintenance agreement binding on all subsequent owners of land served by the private storm and surface water drainage system. The maintenance agreement shall be recorded by the city. Such agreement shall provide for access to the system at reasonable times for regular inspection by the city or its authorized representative to ensure that the facility is maintained in proper working condition to meet design standards and any provisions established. The agreements shall include the right of the city to access the system to take such action as necessary to protect the public safety and health in any instance where the owner fails to make the appropriate correction. Such agreement may contain provisions for regular or special assessments.

13.70.160 Inspection.

- A. The developer will submit to the city a proposed construction schedule ten days prior to commencing construction. The city engineer shall conduct inspections and file reports for periodic inspections necessary during construction of storm and surface water management systems to ensure compliance with the approved plans. The developer shall notify the city upon completion of the project when a final inspection will be conducted.
- B. Any portion of the work which does not comply with city regulations will be promptly corrected by the developer, after written notice from the city. The notice shall set forth the nature of corrections required and the time within which corrections will be made.
- C. A final inspection shall be conducted by the city upon completion of the elements of the storm and surface water drainage plan to determine if the completed work is constructed in accordance with approved plan and this chapter. The developer shall supply an "as-built" certification by a registered professional engineer licensed in the state of

Washington to certify that the facility has been constructed as shown in the "as-built" plans and meets approved plans and specifications. The city will provide the developer with a written notification of the results of the final inspection.

13.70.170 Preventive maintenance.

- A. It shall be the responsibility of the developer or property owner to maintain all infiltration systems, retention, detention or other storm and surface water drainage structures as contained in the storm and surface water utility permit.
- B. The city shall annually inspect all infiltration systems, retention, detention or other storm and surface water drainage structures.
- C. If the inspection indicates improper maintenance, unsafe conditions, or danger to public health or safety, the city shall so inform the developer or property owner of those conditions as well as a schedule for remediation. The cost of such remediation is the cost of the developer or property owner. In any instance where the developer or property owner fails to make the appropriate correction, the city will take such action as necessary to protect the public health and safety. Any cost incurred by the city shall be recovered from the developer or property owner.

13.70.180 Penalties.

- A. Any person convicted of violating the provisions of this chapter shall be guilty of a gross misdemeanor. Each day that the violation continues shall be a separate offense.
- B. In addition to, or as an alternative to any criminal prosecution or other penalty or billable cost of abatement or inspection as provided by ordinance or statute, any responsible person who violates a provision of this chapter, or order of the director issued pursuant to this chapter, may be assessed a civil penalty under chapter 1.12 AMC.
- C. In addition to imposition of a civil penalty, the director shall have the authority to order any responsible person to stop work if the work does not conform to the permit requirements and the severity is determined to be sufficient to warrant such action. The stop work order shall be issued in accordance with the procedures set forth in 1.12 AMC for notices and orders. Failure to comply with the terms of a stop work order shall result in enforcement actions including, but not limited to, the issuance of a civil penalty.
- C. In addition, the city may institute injunctive, mandamus or other appropriate action or proceedings at law or equity for the enforcement of this chapter or to correct violations of this chapter, and any court of competent jurisdiction shall have the right to issue restraining orders, temporary or permanent, injunctions or other appropriate forms of remedy or relief.
- D. Any person who, through an act of commission or omission, aids or abets in the violation shall be considered to have committed a violation.

13.70.190 Cross connections prohibited.

The installation or maintenance of any cross connection, meaning a connection between any storm and surface water drainage system and any sanitary sewer system, is prohibited. Any such cross connections now existing, or hereafter installed, are declared to be public nuisances and shall be abated by the Director in the manner provided by chapter 8.08 AMC.

13.70.200 Illicit discharges prohibited – certain discharges allowed – conditions.

- A. The stormwater system of the city of Aberdeen, natural and artificial, may only be used to convey stormwater runoff and discharges meeting the permit conditions within a current National Pollutant Discharge Elimination System Permit approved by the Washington State Department of Ecology. Except as provided in subsections B and C below, no person shall throw, drain or otherwise discharge, cause or allow others under it s control to throw, drain or otherwise discharge into the stormwater system any materials other than stormwater.
- B. The following discharges into the stormwater system are permitted provided the following conditions are met:
- 1. Discharges from potable water sources, including waterline flushing, hyper chlorinated waterline flushing, fire hydrant system flushing and pipeline hydrostatic test water. Planned discharges shall be dechlorinated to a concentration of 0 1 ppm or less, pH adjusted, if necessary (to meet water quality standards) and volumetrically and velocity controlled to prevent re-suspension of sediments in the stormwater system. As an option to dechlorinating, planned discharges from potable water sources may be discharged directly to the municipal sanitary sewer system in a manner approved by the Director. Planned discharges of waterline and hydrant system flushing need not be dechlorinated at the point of discharge is the discharge methods, location, or dilution will result in a pH concentration less than 0.1 ppm at the point the water would enter a natural drainage channel.
- 2. Discharges from lawn watering and other irrigation runoff. Reasonable steps shall be taken to minimize runoff including limiting duration and over-spray.
- 3. Dechlorinated swimming pool discharges. The discharges shall be dechlorinated to a concentration of 0.1 ppm or less, pH adjusted, and re-oxygenized if necessary, and volumetrically and velocity controlled to prevent re-suspension of sediments in the stormwater system and the property owner shall obtain permission from the Director. Swimming pool cleaning waste water and filter backwash shall not be discharged to the stormwater system.
- 4. Street and sidewalk wash water, water used to control dust, and routine external building wash down that does not use detergents. To avoid washing pollutants into the stormwater system, the discharge must minimize the amount of street wash and dust control water used. At active construction sites, street sweeping must be performed prior to washing the street.
- 5. Other non-stormwater discharges. The discharges shall be in compliance with the requirements of the stormwater pollution prevention plan for the discharges as reviewed and approved by the City.

- 6. Any discharges from a construction site. Discharges must be in conformance with the stormwater pollution prevention plan (SWPPP) reviewed by the City.
- 7. Combined sewer overflow (CSO) discharges. This discharge must be in conformance with a current National Pollution Discharge Elimination System Permit, approved by the Washington State Department of Ecology.

C. The following categories of non stormwater discharges are specifically allowed:

- 1. Diverted stream flows;
- 2. Rising ground waters;
- Uncontaminated ground water infiltration (as defined at AMC 13.52.390);
 - 4. Uncontaminated pumped ground water;
 - 5. Foundation drains;
 - 6. Air conditioning condensation;
 - 7. Irrigation water from agricultural sources that is commingled with urban stormwater;
 - 8. Springs;
 - 9. Water from crawl space pumps;
 - 10. Footing drains;
 - 11. Flows from riparian habitats and wetlands;
 - 12. Non stormwater discharges covered by another NPDES permit;
- 13. Discharges from emergency fire fighting activities in accordance with the city of Aberdeen Stormwater NPDES Phase II Permit Section S2 Authorized Discharges. The city's Stormwater NPDES Phase II Permit is available to view in the office of the Director.
- D. Except as provided in this section, no person shall use the stormwater system, directly or indirectly, to dispose of any solid or liquid matter other than stormwater. No person shall make or allow any connection to the stormwater system which could result in the discharge of polluting matter. Connections to the stormwater system from the interiors of structures are prohibited. Connections to the stormwater system for any purpose other than to convey stormwater or groundwater are prohibited and shall be eliminated.
 - E. Stormwater discharge into the sanitary system is prohibited exceptions.
- 1. No person shall discharge or cause to be discharged any stormwater, surface water, ground water, roof runoff, subsurface drainage, uncontaminated cooling water, or unpolluted industrial process waters into any sanitary sewer, unless otherwise approved by the Director based on lack of feasible alternatives or unless the discharge meets the condition outlined in AMC 13.52.390.
- 2. No person shall make connection of roof downspouts, exterior foundation drains, area drains, or other sources of stormwater surface runoff or groundwater to a building sewer or building drain which in turn is connected directly or indirectly to a public sanitary sewer, unless such connection is otherwise approved in writing by the Director based on lack of feasible alternatives or other appropriate factors.
- F. Stormwater shall be discharged to such sewers as are specifically designated as combined sewers or storm sewers, or to a natural outlet approved by the Director. Storm

drainage from hard-surfaced or graded areas, such as parking lots, service station yards, and storage yards, shall enter the public storm sewer system or other outlet approved by the Director and as required by this Chapter and as such facilities are available. Such storm drainage shall not be connected to or allowed to enter a sanitary sewer, unless otherwise approved in writing by the Director based on lack of feasible alternatives or other appropriate factors

13.70.210 Easements.

All public storm drainage systems shall be required to be located within a recorded public storm drainage easement or public right-of-way. An unobstructed ingress/egress maintenance easement shall be provided for city access to said storm drainage facilities. The minimum width of the required drainage easement shall be adequate to encompass all facilities and include room for access and maintenance, as determined by the city.

13.70.220 Appeals – filing deadlines.

- A. Any billing statement, charge, or other fee assessed under this chapter may be appealed to the Director. The appeal may be decided informally, without a hearing, or in the sole discretion of the Director an informal hearing may be held. The Director's decision shall be in writing. The Director's decision shall be the final determination unless a written notice of appeal is filed with the Finance Director within fourteen days of the Director's decision. Appeals from the Director's decision shall be heard by the city council. The city council's decision on appeal shall be the final determination of the city.
- B. Any appeal from the refusal to approve a storm and surface water drainage plan shall be considered in the same manner as an appeal from the denial of the development permit being applied for.
- C. Any civil enforcement action taken under this chapter, that does not fall within subsections A or B of this section, may be appealed to the Director in the same manner as provided for appeals under chapter 1.12 AMC.

SECTION 3. CODE SECTION AMENDED. Ordinance 5971, in part, codified as AMC 1.12.050E, is amended to read as follows:

Appeal to Superior Court. An appeal of the decision of the board must be filed with Superior Court within ten twenty-one calendar days of the date of mailing of the decision of the board to the appellant or is thereafter barred.

SECTION 4. SAVINGS CLAUSE. Ordinance 6177, as amended, which is repealed by this ordinance, shall remain in force and effect until the effective date of this ordinance.

SECTION 5.	SEVERABILITY.	Should any sec	tion, subsection, paragraph, sentence		
clause or phrase of	this ordinance or its	application to	any person or situation be declared		
unconstitutional or invalid for any reason, such decision shall not affect the validity of the					
remaining portions of	f this ordinance or its a	application to any	y other person or situation.		
SECTION 6.	PUBLICATION BY	Y SUMMARY.	The Finance Director is authorized		
and directed to publis	sh the attached summa	ry in lieu of this	ordinance.		
SECTION 7.	EFFECTIVE DAT	E. This ordinan	nce shall take effect immediately upor		
its passage, signing,	and publication.				
PASSED and	APPROVED this	day of	, 2010.		
· · · · · · · · · · · · · · · · · · ·					
ATTESTED:			Bill Simpson, Mayor		
Kathryn Skolrood, F	inance Director				

11 - 02

ORDINANCE NO. 6526

AN ORDINANCE RELATING TO LOW IMPACT DEVELOPMENT APPROACHES TO STORM AND SURFACE WATER MANAGEMENT, AMENDING SECTIONS 13.70.020 AND 13.70.130 OF THE ABERDEEN MUNICIPAL CODE AND AMENDING ORDINANCE 6503.

WHEREAS, the city's storm and surface water management code must be amended to allow Low Impact Development Approaches (LIDA) as an alternative to the structural standards in the Stormwater Management Manual for Western Washington; NOW, THEREFORE,

BE IT ORDAINED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF ABERDEEN:

SECTION 1. CODE SECTION AMENDED. Ordinance 6503, Section 2, in part, codified as AMC 13.70.020X (Definitions), is hereby amended to read as follows:

"Storm and surface water management" means:

- 1. For quantitative control, a system of vegetative and structural measures that control the increased volume and rate of surface runoff caused by manmade changes to the land; and
- 2. For qualitative control, a system of vegetative, structural and other measures that reduce or eliminate pollutants that might otherwise be carried by surface runoff.
- 3. For "Low Impact Development Approaches (LIDA)" combining quantitative and qualitative controls, a stormwater management and land development strategy applied at the parcel and subdivision scale that aims to mimic natural hydrology and processes by using smallscale, decentralized practices that infiltrate, evaporate, and transpire rainwater. LIDA should: minimize impervious surfaces; disconnect hydrologic elements (roofs, downspouts, parking areas); maintain/increase flow paths and times; and utilize decentralized treatment practices.

SECTION 2. CODE SECTION AMENDED. Ordinance 6503, Section 2, in part, codified as AMC 13.70.130 (Minimum control and management requirements), is hereby amended to read as follows:

The minimum storm and surface water control and management requirements shall be in accordance with standards adopted by the city and included in the Stormwater Management

Manual for Western Washington. <u>Low Impact Development Approaches (LIDA) may be substituted for structural standards in the Stormwater Management Manual where the LIDA is developed by a licensed professional in accordance with accepted industry practices.</u>

SECTION 3. PUBLICATION BY SUMMARY. The Finance Director is authorized and directed to publish the attached summary in lieu of this ordinance.

SECTION 4. EFFECTIVE DATE. This ordinance shall take effect immediately upon its passage, signing, and publication.

PASSED and APPROVED this 25th day of January, 2012.

Bill Simpson, Mayor

ATTESTED:

Kathryn Skolrood, Finance Director

Chapter 1.12 GENERAL PENALTY--CIVIL VIOLATIONS

Section 1.12.010 Purpose.

The purpose of this chapter is to establish an efficient system to enforce the development regulations of the city, to provide an opportunity for a prompt hearing and decision on alleged violations of these regulations, and to establish monetary penalties for violations. (Prior code § 1.26.010)

Section 1.12.020 Definitions.

In this chapter, unless a different meaning is plainly required:

"Act" means doing or performing something.

"Applicable department director" means:

- 1. Fire chief in the case of Chapter 15.16;
- 2. Public works director in the case of Title 15 (Building Code) and Title 13 (Utility Code); and
 - 3. Director of planning and economic development in the case of Title 17 (Zoning).

"Board" means either the building code commission (Chapter 2.32) or the board of adjustment (Chapter 2.36).

"Civil violation" means a violation of a provision of a city development regulation for which a monetary penalty may be imposed under this chapter. Each day or portion of a day during which a violation occurs or exists is a separate violation. Traffic infractions pursuant to Title 10 and Shoreline Management pursuant to Chapter 16.20 of this code are specifically excluded from the application of this chapter.

"Development" means the erection, alteration, enlargement, demolition, maintenance or use of any structure or the alteration or use of any land above, at or below ground or water level, and all acts authorized by a city development regulation.

"Development regulation" means and includes the following:

- 1. Aberdeen Municipal Code, Title 15 (Building Code), Chapter 15.16 (Fire Code), Title 13 (Utility Code), Title 17 (Zoning and Platting);
 - 2. All standards, regulations and procedures adopted pursuant to the above; and
 - 3. The terms and conditions of any permit or approval issued pursuant to the above.

"Emergency" means a situation which in the opinion of the applicable department director requires immediate action to prevent or eliminate an immediate threat to the health or safety of persons or property.

"Omission" means a failure to act.

"Person" includes any natural person, any corporation or any unincorporated association or partnership.

"Violation" means an act or omission contrary to a city development regulation including an act or omission at the same or different location by the same person. (Prior code § 1.26.020)

Section 1.12.030 Order to correct violation.

- A. Issuance. Whenever the applicable department director determines that a violation has occurred or is occurring, he/she shall pursue reasonable attempts to secure voluntary correction, failing which he/she may issue an order to correct violation to the property owner or to any person causing, allowing or participating in the violation.
- B. Content. The applicable department director shall include the following in the order to correct violation:

- 1. The name and address of the property owner or other person to whom the order to correct violation is directed; and
- 2. The street address or description sufficient for identification of the building, structure, premises, or land upon or within which the violation has occurred or is occurring; and
- 3. A description of the violation and a reference to that provision of a city development regulation which has been violated; and
- 4. A statement of the action required to be taken to correct the violation as determined by the applicable department director and a date or time by which correction is to be completed; and
- 5. A statement that a monetary penalty in an amount per day for each violation as specified by Section 1.12.040(E) shall be assessed against the person to whom the order to correct violation is directed for each and every day, or portion of a day, on which the violation continues following the date set for correction.
- C. Service of Order. The applicable department director shall serve the order to correct violation upon the person to whom it is directed, either personally or by mailing a copy of the order to correct violation by certified mail, postage prepaid, return receipt requested, to such person at his/her last known address or by posting a copy of the order to correct violation conspicuously on the affected property or structure. Proof of service shall be made at the time of service by a written declaration under penalty of perjury executed by the person effecting the service, declaring the time and date of service and the manner by which service was made.
- D. Extension. Upon written request received prior to the correction date or time, the applicable department director may extend the date set for correction for good cause. The applicable department director may consider substantial completion of the necessary correction or unforeseeable circumstances which render completion impossible by the date established as good cause. (Prior code § 1.26.030)

Section 1.12.040 Notice of civil violation.

- A. General. Following the date or time by which the correction must be completed as required by an order to correct violation, the applicable department director shall determine whether such correction has been completed.
 - B. Issuance.
- 1. If the required correction has not been completed by the correction date or time as specified in the order to correct violation, the applicable department director may issue a notice of civil violation to each person to whom an order to correct violation was directed.
- 2. Notwithstanding the provisions of Section 1.12.030, the applicable department director may issue a notice of civil violation without having issued an order to correct violation where an emergency exists or when a repeated violation occurs.
- C. Content. The applicable department director shall include the following in the notice of civil violation:
- 1. The name and address of the property owner or other persons to whom the notice of civil violation is directed; and
- 2. The street address or a description sufficient for identification of the building, structure, premises, or land upon or within which the violation has occurred or is occurring; and
- 3. A description of the violation and a reference to that provision of a city development regulation which has been violated; and
- 4. A statement that the monetary penalty in the amount per day for each violation as specified in Section 1.12.040(E) is assessed against the person to whom the notice of civil violation is directed for each and every day, or portion thereof during which the violation continues beyond the date and time established for correction in the order to correction violation; and

- 5. A statement that the person to whom the notice of civil violation was directed must complete correction of the violation and may pay the monetary penalty imposed to the city clerk or may appeal the notice of civil violation as provided in Section 1.12.050.
- D. Service of Notice. The applicable department director shall serve the notice of civil violation upon the person to whom it is directed, either personally or by mailing a copy of the notice of civil violation by certified mail, postage prepaid, return receipt requested, to such person at his/her last known address or by posting the notice of civil violation conspicuously on the affected property or structure. The person who effected personal service shall make proof of service at the time of service by a written declaration under penalty of perjury declaring the time and date and the manner in which service was made.
- E. Monetary Penalty. The amount of the monetary per day or portion thereof for each violation is as follows:
 - 1. First violation, one hundred dollars (\$100.00);
 - 2. Second violation, two hundred dollars (\$200.00);
 - 3. Third violation, three hundred dollars (\$300.00);
 - 4. Additional violations in excess of three, five hundred dollars (\$500.00).
- F. Continued Duty to Correct. Payment of a monetary penalty pursuant to this chapter does not relieve a person of the duty to correct the violation as ordered by the applicable department director. (Prior code § 1.26.040)

Section 1.12.050 Appeal.

- A. General. A person to whom a notice of civil violation is directed may appeal the notice of civil violation including to the building code commission in the case of violations of Titles 13 and 15 and the board of adjustment in the case of violations of Title 17. A person to whom a notice of civil violation is directed may not appeal the amount of the monetary penalty imposed.
- B. How to Appeal. A person may appeal the notice of civil violation by filing a written notice of appeal with the public works director in the case of violations of Titles 13 and 15 and the director of planning and economic development in the case of violations of Title 17, within seven calendar days from the date of service of the notice of civil infraction.
- C. Monetary Penalty. The monetary penalty for a continuing violation does not accrue during the pendency of the appeal unless the appeal is found to be frivolous or intended solely to delay compliance.
 - D. Hearing.
- 1. Notice. Notice of the hearing before the board shall be given to the appellant ten calendar days before such hearing.
- 2. Procedure. The board shall conduct a hearing on the appeal pursuant to the rules of procedure of the board. The city and the appellant may participate as parties in the hearing and each may call witnesses. The city shall have the burden of proof by a preponderance of the evidence that a violation has occurred.
 - 3. Action of Board.
- a. The board shall determine whether the city has proved by a preponderance of the evidence that a violation has occurred.
 - b. The board shall consider the following in making its determination:
 - i. Whether the intent of the appeal was to delay compliance; or
 - ii. Whether the appeal is frivolous; or
- iii. Whether there was a written contract or agreement with another party which specified the securing by the other party of the applicable permit or approval from the city; or
- iv. Whether the appellant exercised reasonable and timely effort to comply with applicable development regulations; or

- v. Any other relevant factors.
- 4. Notice of Decision. The board shall mail a copy of its decision to the appellant.
- E. Appeal to Superior Court. An appeal of the decision of the board must be filed with Superior Court within twenty-one calendar days of the date of mailing of the decision of the board to the appellant or is thereafter barred.

(6503, Amended, 08/25/2010, Prior Text)

Section 1.12.060 Collection of monetary penalty.

- A. The monetary penalty constitutes a personal obligation of the person to whom the notice of civil violation is directed. Any monetary penalty assessed must be paid to the city clerk within seven calendar days from the date of service of notice of civil violation or, if an appeal was filed pursuant to Section 1.12.050 within seven calendar days of the board's decision.
- B. The corporation counsel, on behalf of the city, is authorized to collect the monetary penalty by use of appropriate legal remedies, the seeking a granting of which shall neither stay nor terminate the accrual of additional per diem monetary penalties so long as the violation continues. (Prior code § 1.26.060)

Section 1.12.070 Additional enforcement procedures.

The provisions of this chapter may be used in addition to other enforcement provisions authorized by this code including criminal prosecutions except as precluded by law. (Prior code § 1.26.070)

Section 1.12.080 Conflicts.

In the event of a conflict between this chapter and any other provision of this code or city ordinance providing for a civil penalty, this chapter shall control. (Prior code § 1.26.090)

Section 1.12.090 Meaning of terms.

Whenever the terms "civil infraction" and "civil penalty" are used in any code, ordinance or regulation of the city, those terms shall be deemed to have the same meaning as the terms "civil violation" and "monetary penalty," respectively, as used in this chapter. (Prior code § 1.26.100)

Chapter 1.20 INFRACTION PROCEDURES

Section 1.20.010 Purpose and scope.

It is the purpose of this chapter to provide procedures for the handling of offenses designated as infractions under the Aberdeen Municipal Code. These procedures shall apply to all infractions except where in conflict with rules established by statute, ordinance, or supreme court rule. (Prior code § 6.60.010)

Section 1.20.020 Notice of infraction--Issuance.

- A. A notice of infraction may be issued based upon probable cause to believe an infraction has been or is being committed by:
 - 1. A law enforcement officer;
 - 2. The corporation counsel or deputy corporation counsel; or
- 3. Other city officers or employees authorized by the chief of police or ordinance to issue either infractions or criminal citations.
- B. With the consent of the corporation counsel, the court may issue a notice of infraction based upon the sworn statement of any other person demonstrating probable cause to believe that an infraction has been or is being committed. (Prior code § 6.60.020)

Section 1.20.030 Notice of infraction--Determination final unless contested--Form.

- A. A notice of infraction represents a determination that an infraction has been committed. The determination will be final unless contested as provided in this chapter.
- B. The notice of infraction shall be in substantially the same form and content as the notice of traffic infraction prescribed by state law and/or court rule, except that the provisions relating to nonrenewal of a driver's license will not apply unless authorized by state law. (Prior code § 6.60.030)

Section 1.20.040 Response to notice of infraction--Contesting determination--Hearing.

- A. Any person who receives a notice of infraction shall respond to such notice as provided in this section within fifteen days of the notice.
- B. If the person determined to have committed the infraction does not contest the determination, the person shall respond by completing the appropriate portion of the infraction and submitting it, either by mail or in person, to the Aberdeen Municipal Court. A check or money order in the amount of the penalty prescribed for the offense must be submitted with the response. When a response which does not contest the determination is received, an appropriate order shall be entered in the court's records.
- C. If the person determined to have committed the infraction wishes to contest the determination the person shall respond by completing the portion of the notice of infraction requesting a hearing and submitting it, either by mail or in person, to the court specified on the notice. The court shall notify the person in writing of the time, place, and date of the hearing, and that date shall not be sooner than seven days from the date of the notice, except by agreement.
- D. If the person determined to have committed the infraction does not contest the determination but wishes to explain mitigating circumstances surrounding the infraction the person shall respond by completing the portion of the notice of infraction requesting a hearing for that purpose and submitting it, either by mail or in person, to the court specified on the notice.

The court shall notify the person in writing of the time, place, and date of the hearing. (Prior code § 6.60.040)

(6459, Amended, 03/26/2008, Prior Text)

Section 1.20.050 Hearings--Contesting determination that infraction committed--Appeal.

- A. A hearing held for the purpose of contesting the determination that an infraction has been committed shall be without a jury.
- B. The court may consider the notice of infraction and any other written report made under oath submitted by the officer who issued the notice or whose written statement was the basis for the issuance of the notice in lieu of the officer's personal appearance at the hearing. The person named in the notice may ask the court to subpoena witnesses, including the officer, and has the right to present evidence and examine witnesses present in court.
- C. The burden of proof is upon the city to establish the commission of the infraction by a preponderance of the evidence.
- D. After consideration of the evidence and argument the court shall determine whether the infraction was committed. Where it has not been established that the infraction was committed an order dismissing the notice shall be entered in the court's records. Where it has been established that the infraction was committed an appropriate order shall be entered in the court's records.
- E. An appeal from the court's determination or order shall be to the superior court as provided in the court rules. (Prior code \S 6.60.050)

Section 1.20.060 Hearings--Explanation of mitigating circumstances.

- A. A hearing held for the purpose of allowing a person to explain mitigating circumstances surrounding the commission of an infraction shall be an informal proceeding. The person may not subpoena witnesses. The determination that an infraction has been committed may not be contested at a hearing held for the purpose of explaining mitigating circumstances.
- B. After the court has heard the explanation of the circumstances surrounding the commission of the infraction an appropriate order shall be entered in the court's records.
 - C. There may be no appeal from the court's determination or order. (Prior code § 6.60.060)

Section 1.20.070 Monetary penalties.

- A. A person found to have committed an infraction shall be assessed a monetary penalty. No penalty may exceed three hundred dollars (\$300.00) for each offense unless specifically authorized by ordinance.
 - B. The court may prescribe a schedule of monetary penalties for designated infractions.
- C. There shall be a penalty of twenty-five dollars (\$25.00) for failure to respond to a notice of infraction, unless a lesser amount is set by ordinance for a particular infraction. The penalty provided for herein shall be in addition to the maximum penalty provided for in subsection (A) of this section.
- D. Whenever a monetary penalty is imposed by a court under this chapter it is immediately payable. If the person is unable to pay at that time the court may, in its discretion, grant an extension of the period in which the penalty may be paid. (Prior code § 6.60.070)

Section 1.20.080 Order of court--Civil nature--Waiver, reduction, suspension of penalty--Community service in lieu of penalty.

- A. An order entered after the receipt of a response which does not contest the determination, or after it has been established at a hearing that the infraction was committed, or after a hearing for the purpose of explaining mitigating circumstances is civil in nature.
- B. The court may include in the order the imposition of any penalty authorized by the provisions of the city code for the commission of an infraction. The court may, in its discretion, waive, reduce, or suspend the monetary penalty prescribed for the infraction. At the person's request the court may order performance of a number of hours of community service in lieu of a monetary penalty, at the rate of the then state minimum wage per hour. (Prior code § 6.60.080)

Section 1.20.090 Costs and attorney's fees.

Each party to an infraction case is responsible for costs incurred by that party. No costs or attorney fees may be awarded to either party in an infraction case. (Prior code § 6.60.090)

Section 1.20.100 Failure to respond or appear.

If a person receiving a notice of infraction fails to respond to said notice as directed, of if a person fails to appear for a mitigation hearing or contested hearing set by the court, the court shall enter an order finding that the person has committed the infraction and shall assess any penalties provided for by law. (Prior code § 6.60.100)

Section 1.20.110 Setting aside judgment upon failure to appear.

For good cause shown and upon terms the court deems just, the court may set aside a judgment entered upon a failure to appear in accordance with procedures established by the court rules for setting aside judgments for failure to appear in traffic infraction cases. A motion to set aside the judgment must be made within ninety (90) days after entry of the judgment. (Prior code § 6.60.110)

Section 1.20.120 Failure to pay or complete community service--Contempt.

- A. The failure of any person to pay a monetary penalty imposed by the court for an infraction, or the failure to meet a time payment authorized by the court, or the failure to complete community service approved by the court shall constitute the violation of a court order and shall be contempt of court.
- B. No person shall be punished for contempt under subsection (A) of this section, until an opportunity shall have been given to him to be heard in his defense; and for that purpose the court may issue a bench warrant to bring the offender before the court. (Prior code § 6.60.120)

Section 1.20.130 Misdemeanors--Penalties.

Any person who fails to exercise one of the options in a timely manner after receiving a statement of the options provided in the chapter for responding to a notice of infraction and the procedures necessary to exercise these options shall be guilty of a misdemeanor regardless of the disposition of notice of infraction.

(6459, Amended, 03/26/2008, Prior Text)

Section 1.20.140 Severability.

If any provision of this chapter or its application to any person or circumstance is held invalid, the remaining of this chapter or the application of the provision to other persons or circumstances is not affected. (Prior code § 6.60.140)

Appendix H – O&M Inspection Forms

Site Inspection Form

Project Name: Maintenance Yand Inspector Name: Rick Song de	Title: Deputy Rublic Works (
Date: 23 Nov. 2017 Inspection Type: □ After a rain eve □ Weekly □ Turbidity/transp □ Other	Time: \((: 00) Am ent parency benchmark exceedance
Weather 1/9410	Herrox 2" In last 24 hours
Element 1: Mark Clearing Limits BMP:	ion of BMPs
I OCATION	ctioning Problem/Corrective Action
1.0094100	etioning NIP Problem/Corrective Action
Element 2: Establish Construction Acces BMP:	ess
Location Inspected Fun N Y fowed environmes	etioning NIP Problem/Corrective Action
BMP:	
L OCATION TO THE	nctioning N NIP Problem/Corrective Action

Element 3: Control Flow Rates BMP:	
Location Inspected (Y) N	Functioning Y N NIP Problem/Corrective Action
No Clow restrictions	
BMP: Location Inspected Y N	Functioning Y N NIP Problem/Corrective Action
Element 4: Install Sediment Cor BMP:	itrols
Location Inspected Cutch Rasin Schment Trap	Functioning Y N NIP Problem/Corrective Action V NIP Problem/Corrective Action Problem/Corrective Actio
BMP: Location Inspected Y N	Functioning Y N NIP Problem/Corrective Action
BMP: Location Inspected Y N	Functioning Y N NIP Problem/Corrective Action
BMP: Location Inspected Y N	Functioning Y N NIP Problem/Corrective Action
BMP: Location Inspected Y N	Functioning Problem/Corrective Action

Element 5: Stabilize Soils BMP:	
Location Inspected Y N	Functioning Problem/Corrective Action
No open Suils	
BMP: Location Inspected Y N	Functioning Problem/Corrective Action Y N NIP
BMP: Location Inspected Y N	Functioning Y N NIP Problem/Corrective Action
BMP: Location Inspected Y N	Functioning Y N NIP Problem/Corrective Action
Element 6: Protect Slopes BMP: Location Inspected	Functioning Problem/Corrective Action
Mo Slopes	Y N NIP
BMP: Location Inspected Y N	Functioning Y N NIP Problem/Corrective Action
BMP: Location Inspected Y N	Functioning Y N NIP Problem/Corrective Action

Element 7: Protect Drain Inlets BMP:		
Location Inspected (Y) N	Functioning Y N NIP	Problem/Corrective Action
Coutch Basin Inserts		٠.
BMP: Location Inspected Y N	Functioning Y NIP	Problem/Corrective Action
BMP: Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action
Element 8: Stabilize Channels and BMP: Location Inspected Y N What A	Functioning Y N NIP	Problem/Corrective Action
BMP: Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action
BMP: Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action
BMP: Location Inspected Y N	Functioning Y N NIP] Problem/Corrective Action

Element 9: Control Pollutants BMP:	
Location Inspected N	Functioning Y N NIP Problem/Corrective Action
BMP: Location Inspected Y N	Functioning Y N NIP Problem/Corrective Action
Element 10: Control Dewaterin BMP:	(基本) 기계는 기업에 대한 1500km key 가장 기업에 가장 그 소문에 가는 것 같다.
Location Inspected Y N	Functioning Y N NIP Problem/Corrective Action
BMP: Location Inspected Y N	roniema areanye Achan
BMP: Location Inspected Y N	Problema orreance Achon

Stormwater D	ischarges From the Site
Observed? YN/	Problem/Corrective Action
Location	
Turbidity	
Discoloration //	
Sheen	
Location	
Turbidity	·
Discoloration	
Sheen	

Water Quality Monitoring /
Was any water quality monitoring conducted? □ Yes □ No
If water quality monitoring was conducted, record results here:
If water quality monitoring indicated turbidity 250 NTU or greater; or transparency 6
cm or less, was Ecology notified by phone within 24 hrs?
□ Yes □ No
If Ecology was notified, indicate the date, time, contact name and phone number
below:
Date:
Time:
Contact Name:
Phone #:
General Comments and Notes
Include BMP repairs, maintenance, or installations made as a result of the inspection.
Were Photos Taken? □ Yes □ No
If photos taken, describe photos below:

Site Inspection Form

General Information

Inspector Name: Charley Creek Lick Sengder Title: Deputy PublicCourks Direct CESCL#:
Date: 73 Nov. 2011 Time: 11:30 mm Inspection Type: After a rain event Weekly Turbidity/transparency benchmark exceedance Other
Weather your Precipitation Since last inspection $A_{eff}(x) \geq \sqrt{\ln \text{last 24 hours}}$ Description of General Site Conditions:
Wet. water flowing in Swale. Water is not vouning offsite. Infiltrations as designed no offsite turbidity doe to ous te 158ves. modey! Inspection of BMP's
Element 1: Mark Clearing Limits BMP:
Location Inspected Functioning Problem/Corrective Action Cleaning limits markes
Element 2: Establish Construction Access BMP: Location Inspected Functioning Problem/Corrective Action Conclusion access Clean of Sediment
BMP: Location Inspected Functioning Problem/Corrective Action Y N Y N NIP Problem/Corrective Action

Element 3: Control Flow Rates BMP:	igrafistis na Mastija. Banda grafis	
Location Inspected Hows held on Site N	Functioning YN NIP	Problem/Corrective Action
and infiltrated		
BMP:		
Location Inspected N	Functioning Y N NIP	Problem/Corrective Action
Jafiltratum pond		
Element 4: Install Sediment Cor BMP:		
Location Inspected (N	Functioning YN NIP	Problem/Corrective Action
BMP: Location Inspected N	Functioning Y NIP	Problem/Corrective Action
2 thase Sediment fond		
2 shase Sediment fond last boy infoldrates BMP:		
Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action
BMP: Inspected	Functioning	
Location Hispected Y N	Y N NIP	Problem/Corrective Action
BMP:		
Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action

Element 5: Stabilize Soils BMP:		
Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action Soils not Stable Zed but al filmers go to infoltration pon.
BMP: Location Inspected Y N	Functioning Y N NIP	No-Vvwff Affita Problem/Corrective Action
BMP:		
Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action
BMP: Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action
Element 6: Protect Slopes BMP:		
Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action
No Slopes		
BMP:		
Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action
BMP: Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action
Location Inspected		Problem/Corrective Action

Element 7: Protect Drain Inlets BMP:		
Location Inspected Y N No Draw Inlets	Functioning Y N NIP	Problem/Corrective Action
BMP: Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action
BMP: Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action
Element 8: Stabilize Channels an BMP:	id Outlets	
Location Inspected No ortfalls all flows directed to BMP: Infiltration foul	Functioning Y N NIP	Problem/Corrective Action
Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action
BMP: Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action
BMP: Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action

Element 9: Control I BMP:			
Location	Inspected $\stackrel{\text{Fi}}{\widehat{Y}}$ N $\stackrel{\text{Y}}{V}$	inotioning NIP	Problem/Corrective Action
Swale			
BMP: Location	Inspected Fi	anctioning NIP	Problem/Corrective Action
Element 10: Control BMP: Location		unctioning	Problem/Corrective Action
NA	YN	N NIP	r 100(cm/Concentve Action
BMP: Location	Inspected F Y N Y	unctioning N NIP	Problem/Corrective Action
ВМР:			
Location	Inspected F Y N 1	unctioning N NIP	Problem/Corrective Action

Stormwater I	Discharges From the Site
Observed? Y N	Problem/Corrective Action
Location	1 1 1 1
Turbidity	at ditch allong The read
Discoloration	ad ditch allong the read where infiltrated wester
Sheen	
Location	world Show up
Turbidity	
Discoloration	
Sheen	

Water Quality Monitoring
Was any water quality monitoring conducted? Yes No If water quality monitoring was conducted, record results here:
If water quality monitoring indicated turbidity 250 NTU or greater; or transparency 6 cm or less, was Ecology notified by phone within 24 hrs?
If Ecology was notified, indicate the date, time, contact name and phone number below: Date:
Time: Contact Name: Phone #:
General Comments and Notes Include BMP repairs, maintenance, or installations made as a result of the inspection.
Were Photos Taken? □ Yes □ No If photos taken, describe photos below:
Ste working as interled. No turbed
Ste working as interled. No turbed water leaving Site. all water is being directed to infiltration pand
directed to infiltration pond

Site Inspection Form

General Information
Project Name: Vactor Waste Lacility
Inspector Name: Rick Song Low Title: Deputy Public Cerks Director CESCL#:
Date: 23 Nov. 2011 Time: 12:30 pm
Inspection Type: After a rain event
□ Weekly
☐ Turbidity/transparency benchmark exceedance
□ Other
Weather
Precipitation Since last inspection In last 24 hours
Description of General Site Conditions: Approx 2"
Site is goved. Wester is running of to Catch Basins but owen is clean and free of Sediment. Tracking of mat
ower is clean and free of Sediment. Tracking of mat
is not a issue.
Inspection of BMPs
Element 1: Mark Clearing Limits
BMP:
Location Inspected Functioning Problem/Corrective Action Y N Y N NIP
NA
Location Inspected Functioning Problem/Corrective Action
YNN
Element 2: Establish Construction Access
${f BMP}$
Inspected Functioning
Location Y N Y N P Problem/Corrective Action
Park 1
faved
Location Inspected Functioning Problem/Corrective Action
Y N Y NP

Element 3: Control Flow Rates BMP:		
Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action
Discharge wester is BMP. Soms to WWTP		
BMP: Sunt to WWTP		
Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action
Element 4: Install Sediment Con BMP:	itrols	
Location Inspected N	Functioning YN NIP	Problem/Corrective Action
2 Sediment Bays		working as Intended
BMP: Location Inspected Y N	Functioning YN NIP	Problem/Corrective Action
BMP:		
Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action
BMP:		
Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action
BMP:		
Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action

Element 5: Stabilize Soils BMP:	
Location Inspected Y N	Functioning Y N NIP Problem/Corrective Action
NA Powerd	
BMP: Location Inspected Y N	Functioning Y N NIP Problem/Corrective Action
BMP: Location Inspected Y N	Functioning Y N NIP Problem/Corrective Action
BMP: Location Inspected Y N	Functioning Y N NIP Problem/Corrective Action
Element 6: Protect Slopes BMP:	T. Adiovice
Location Inspected Y N	Functioning Y N NIP Problem/Corrective Action
BMP: Location Inspected Y N	Functioning Y N NIP Problem/Corrective Action
BMP: Location Inspected Y N	Functioning Problem/Corrective Action

Element 7: Protect Drain Inlets BMP:		
Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action
All Sedingents Lucined Howah Selment traps BMP: and oil weder gepe Location Inspected		
BMP: and oil wider gepe	eater	
Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action
BMP:		
Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action
Element 8: Stabilize Channels an BMP:	[편집] [1] 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action
NA		
BMP: Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action
BMP: Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action
BMP: Location Inspected Y N	Functioning Y N NIP	Problem/Corrective Action

Element 9: Control Pollutants BMP:	
Location Inspected N	Functioning Y/N NIP Problem/Corrective Action
BMP:	
Location Inspected Y N	Functioning Problem/Corrective Action
Element 10: Control Dewaterin BMP:	
Location Inspected Y N	Functioning Problem/Corrective Action
N	
BMP:	
Location Inspected Y N	Functioning Problem/Corrective Action
BMP: Location Inspected Y N	Functioning Problem/Corrective Action

Stormwater Disch	parges From the Site
Observed? Y N	Problem/Corrective Action
Location	working consently
Turbidity V Discoloration V	Covering Commercial
Sheen	
Location	••
Turbidity	•
Discoloration	
Sheen	

	General Info	rmation				
Project Name	WEATHERNAX	HOLDING TANK				
NPDES Tracking No.		Location	WEATHERWAX DRIVE			
Date of Inspection	7-20-11	Start/End Time	1:00 / 4:00 P.M.			
Inspector's Name(s)			,			
	JEFF SPRINGER		JOHN BOWERS			
Inspector's Title(s)	STORMWATER S	PERUISOR	DHN BOWERS MAINTENANCE III			
Inspector's Contact Information	jspringer@ab	erdeen wa.gov /:	360 - 537-3393 / 360 - 570-7066			
Inspector's Qualifications	· . J	<i>~</i> (/			
CSWPPP Ref#						
Describe present phase of construction						
Type of Inspection: Regular Pre-storm event	☐ During storm event	☐ Post-storm ev	vent			
	Weather Info	ormation				
Has there been a storm event since	the last inspection?	s Prívo				
If yes, provide: Storm Start Date & Time: S	torm Duration (hrs):	Approximate A	Amount of Precipitation (in):			
Weather at time of this inspection? ☐ Clear ☐ Cloudy ☐ Rain ☐ Sleet ☐ Fog ☐ Snowing ☐ High Winds ☐ Other: Temperature:						
Have any discharges occurred sinc If yes, describe:	e the last inspection? Q Y	es L íNo				
Are there any discharges at the time of inspection? The Taylor If yes, describe:						

Site-specific BMPs

- Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required BMPs at your site.
- Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.

	BMP	BMP	BMP	Corrective Action Needed and Notes
		Installed?	Maintenance	
	, <u>, , , , , , , , , , , , , , , , , , </u>		Required?	
1		□Yes □No	□Yes □No	
2		□Yes □No	□Yes □No	
3		☐Yes ☐No	□Yes □No	
4		☐Yes ☐No	☐Yes ☐No	
5		□Yes □No	□Yes □No	
6		□Yes □No	☐Yes ☐No	
7		□Yes □No	□Yes □No	
8		□Yes □No	□Yes □No	
9		□Yes □No	☐Yes ☐No	
10		□Yes □No	☐Yes ☐No	
11		□Yes □No	☐Yes ☐No	
12		□Yes □No	☐Yes ☐No	

	ВМР	BMP Installed?	BMP Maintenance	Corrective Action Needed and Notes
			Required?	
13		☐Yes ☐No	□Yes □No	
14		□Yes □No	☐Yes ☐No	
15		□Yes □No	□Yes □No	
16		☐Yes ☐No	□Yes □No	
17		□Yes □No	□Yes □No	
18		. □Yes □No	☐Yes ☐No	
19		□Yes □No	☐Yes ☐No	
20		□Yes □No	☐Yes ☐No	

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	☐Yes ☐No	□Yes □No	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	ŪÝes □No	□Yes □No	ROUTINE LITTER AND BRUSH RÉMOUAL
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	□ Ýes □No	□Yes □No	
4	Are discharge points and receiving waters free of any sediment deposits?	⊉ Yes □No	□Yes □No	
5	Are storm drain inlets properly protected?	☑ Yes □No	□Yes □No	
6	Is the construction exit preventing sediment from being tracked into the street?	☑Yes □No	□Yes □No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	☑Yes □No	□Yes □No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	□Yes □No	□Yes □No	NA

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	P Yes □No	□Yes □No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	☑Yes □No	Yes INo	
11	Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	☑Yes □No	☐Yes ☐No	
12	(Other)	□Yes □No	□Yes □No	
			Non-Comp	iance
Des	cribe any incidents of non-	compliance not de	scribed above:	
		CE	RTIFICATION	STATEMENT
	supervision in accordance the information submitted directly responsible for go belief, true, accurate, and including the possibility of	e with a system de d. Based on my ind athering the inform complete. I am av of fine and impriso	signed to assure the person the person the inform ware that there are onment for knowing.	chments were prepared under my direction or nat qualified personnel properly gathered and evaluated a or persons who manage the system, or those persons ation submitted is, to the best of my knowledge and significant penalties for submitting false information, ag violations."
	Signature:	Apring		Date: 7-20-11

General Information							
Project Name	HARBORVIEW .	HOLDING TANK					
NPDES Tracking No.		Location	HARBORVEW DRI	ve			
Date of Inspection	7-20-11	Start/End Time	8:30 /11:30	1A.M.			
Inspector's Name(s)							
	JEFF SPRING	ER	JOHN BOWERS				
Inspector's Title(s)	STORMWATER S	UPERVISOR	UDHN BOWERS MAINTENANCE	III			
Inspector's Contact Information	ispringer @ aber	deenwa.gov. / 3	260-537-3393 / 360-	580-7066			
Inspector's Qualifications		0 /	/				
CSWPPP Ref #			·				
Describe present phase of construction							
Type of Inspection: ☑ Regular ☐ Pre-storm event	☐ During storm even	t 🔲 Post-storm ev	ent				
	Weather In	formation					
Has there been a storm event since If yes, provide:	the last inspection?	es PNo					
	orm Duration (hrs):	Approximate A	amount of Precipitation (in):				
Weather at time of this inspection? ☐ Clear ☐ Cloudy ☐ Rain ☐ Sleet ☐ Fog ☐ Snowing ☐ High Winds ☐ Other: Temperature:							
Have any discharges occurred since If yes, describe:	the last inspection? \Box	Yes 🛂 Ńo					
Are there any discharges at the time of inspection? The Taylor Ta							

Site-specific BMPs

- Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required BMPs at your site.
- Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.

		TO COLLEGE TICLION			
1	BMP		BMP	BMP	Corrective Action Needed and Notes
			Installed?	Maintenance	
				Required?	
1			□Yes □No	□Yes □No	·
2			☐Yes ☐No	□Yes □No	
3		·-	☐Yes ☐No	□Yes □No	
4			□Yes □No	□Yes □No	
5			□Yes □No	□Yes □No	
6			☐Yes ☐No	☐Yes ☐No	
7			☐Yes ☐No	☐Yes ☐No	
8			☐Yes ☐No	☐Yes ☐No	
9			☐Yes ☐No	☐Yes ☐No	
10			☐Yes ☐No	☐Yes ☐No	
11			□Yes □No	☐Yes ☐No	
12			☐Yes ☐No	□Yes □No	

	BMP	BMP	BMP	Corrective Action Needed and Notes
		Installed?	Maintenance	
			Required?	
13		☐Yes ☐No	□Yes □No	
14		□Yes □No	☐Yes ☐No	
15		□Yes □No	□Yes □No	
16		□Yes □No	☐Yes ☐No	
17		☐Yes ☐No	☐Yes ☐No	
18		. □Yes □No	□Yes □No	
19		□Yes □No	☐Yes ☐No	
20		☐Yes ☐No	□Yes □No	

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	☑Yes □No	□Yes □No	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	⊠ Yes □ No	Yes No	ROUTINE BRUSH AND LITTER LEMOUAL
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	☑Yes □No	□Yes □No	
4	Are discharge points and receiving waters free of any sediment deposits?	✓Yes □No	□Yes □No	
5	Are storm drain inlets properly protected?	☑Yes □No	□Yes □No	
6	Is the construction exit preventing sediment from being tracked into the street?	☑Yes □No	□Yes □No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	☑Yes □No	Yes No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	□Yes □No	□Yes □No	N/A

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	☑Yes □No	□Yes □No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	☑Yes □No	□Yes □No	••
11	Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	☑Ýes □No	□Yes □No	
12	(Other)	□Yes □No	□Yes □No	
			Non-Compl	iance
Des	scribe any incidents of non-c	compliance not de	scribed above:	
1		CE	RTIFICATION S	STATEMENT
	supervision in accordance the information submitted directly responsible for gabelief, true, accurate, and including the possibility of the possib	with a system deal. Based on my included in the informathering the informathering the informathering the information of fine and imprison.	signed to assure the purity of the person nation, the information are that there are nament for knowing the second of the second	TORMWATER SUPERVISOR
	Signature:	Jones .		Date: 7-20-11

General Information								
Project Name	BASICH BLUD.	Pens						
NPDES Tracking No.		Location	BASICH BLUD					
Date of Inspection	7-21-11	Start/End Time	9:00 /10:30 A.M.					
Inspector's Name(s)								
	JEFF SPRINGE							
Inspector's Title(s)	STORMWATER	SUPERVISOR						
Inspector's Contact Information	isoringer @ aber	Jeen wa . cov						
Inspector's Qualifications	44.3.0	δ						
CSWPPP Ref#								
Describe present phase of								
construction								
Type of Inspection:		/ p						
Regular Pre-storm event	☐ During storm event	☐ Post-storm e	vent					
	Weather Info	ormation						
Has there been a storm event since	the last inspection? QYe	s P No						
If yes, provide:								
Storm Start Date & Time: S	torm Duration (hrs):	Approximate	Amount of Precipitation (in):					
Weather at time of this inspection?	?	· - ·						
		owing 🚨 High Wir	nds					
☐ Other: Temperature:								
Have any discharges occurred since the last inspection? □Yes ☑No								
If yes, describe:	e the last hispection:	cs and						
Are there any discharges at the tin	ne of inspection? Tyes	₹No						
If yes, describe:								

Site-specific BMPs

- Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required BMPs at your site.
- Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.

	ВМР	BMP	BMP	Corrective Action Needed and Notes
	and the second second	Installed?	Maintenance	
			Required?	
1		□Yes □No	☐Yes ☐No	
2		☐Yes ☐No	□Yes □No	
3		□Yes □No	□Yes □No	
4		□Yes □No	□Yes □No	
5		□Yes □No	☐Yes ☐No	
6		□Yes □No	☐Yes ☐No	
7		□Yes □No	□Yes □No	
8		☐Yes ☐No	□Yes □No	
9		□Yes □No	☐Yes ☐No	
10		☐Yes ☐No	☐Yes ☐No	
11		☐Yes ☐No	□Yes □No	
12		☐Yes ☐No	□Yes □No	

	BMP	BMP	BMP	Corrective Action Needed and Notes
		Installed?	Maintenance	
			Required?	
13		☐Yes ☐No	□Yes □No	
14		□Yes □No	☐Yes ☐No	
15		□Yes □No	□Yes □No	
16		□Yes □No	□Yes □No	
17		□Yes □No	☐Yes ☐No	
18		. □Yes □No	☐Yes ☐No	
19		□Yes □No	☐Yes ☐No	
20		□Yes □No	☐Yes ☐No	

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	☐Yes ☐No	□Yes □No	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	Ľ Ýes □No	Yes UNo	Cleaned Litter
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	☑Yes □No	□Yes □No	
4	Are discharge points and receiving waters free of any sediment deposits?	E Yes □No	□Yes □No	
5	Are storm drain inlets properly protected?	⊉ Yes □No	□Yes □No	
6	Is the construction exit preventing sediment from being tracked into the street?	⊉ Yes □No	□Yes □No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	Tyes INo	□Yes □No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	□Yes □No	□Yes □No	N/M

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	L Yes □No	□Yes □No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	☑Yes □No	□Yes □No	
11	Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	□Yes □No	□Yes □No	
12	(Other)	□Yes □No	□Yes □No	
			Non-Compl	ianca
Des	cribe any incidents of non-c	compliance not de		MILE
		CE	RTIFICATION	STATEMENT
	supervision in accordance the information submitted directly responsible for ga belief, true, accurate, and including the possibility of	with a system deal. Based on my incumental the informathering the informathering the information and imprison of fine and imprison.	signed to assure the purity of the personnation, the information are that there are onment for knowing.	chments were prepared under my direction or nat qualified personnel properly gathered and evaluated or persons who manage the system, or those persons ation submitted is, to the best of my knowledge and significant penalties for submitting false information, ag violations." Stormwater Supercusare
	Signature:	()		Date: 7-21-/1

	General Inf	ormation			
Project Name	GRAYS POINT	LANE TANK			
NPDES Tracking No.		Location	GRAYS POINT LANE		
Date of Inspection	7-21-11	Start/End Time	62443 POINT LANE 10:30 A.M. / 12:30 P.M		
Inspector's Name(s)			/		
	JEFF SPRINGER				
Inspector's Title(s)	STORM WATER	SUPERVISOR			
Inspector's Contact Information	ispringer @	aberdeen wa.	gov		
Inspector's Qualifications	0,000		3		
CSWPPP Ref#					
Describe present phase of construction					
Type of Inspection: Regular Pre-storm event During storm event Post-storm event					
	Weather In				
Has there been a storm event since If yes, provide:	the fast inspection?	es ano			
	torm Duration (hrs):	Approximate	Amount of Precipitation (in):		
Weather at time of this inspection? ☐ Clear ☐ Cloudy ☐ Rain ☐ Sleet ☐ Fog ☐ Snowing ☐ High Winds ☐ Other: Temperature:					
Have any discharges occurred sinc If yes, describe:	e the last inspection?	Yes PNo			
Are there any discharges at the tin If yes, describe:	ne of inspection? □Yes	ŪNo			

Site-specific BMPs

• Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required BMPs at your site.

• Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.

	BMP	BMP	BMP	Corrective Action Needed and Notes
		Installed?	Maintenance	
			Required?	
1		□Yes □No	☐Yes ☐No	
2		□Yes □No	□Yes □No	
3		□Yes □No	□Yes □No	
4		□Yes □No	□Yes □No	
5		□Yes □No	□Yes □No	
6		□Yes □No	□Yes □No	
7		□Yes □No	□Yes □No	
8		□Yes □No	□Yes □No	
9		□Yes □No	□Yes □No	
10		☐Yes ☐No	□Yes □No	
11		□Yes □No	□Yes □No	
12		☐Yes ☐No	☐Yes ☐No	

	BMP	BMP	BMP	Corrective Action Needed and Notes
		Installed?	Maintenance	
			Required?	
13		☐Yes ☐No	□Yes □No	
14		□Yes □No	☐Yes ☐No	
15		□Yes □No	□Yes □No	
16		□Yes □No	☐Yes ☐No	
17		☐Yes ☐No	□Yes □No	
18		. □Yes □No	□Yes □No	
19		☐Yes ☐No	☐Yes ☐No	
20		□Yes □No	□Yes □No	

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	G Yes □No	□Yes □No	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	⊉ Yes □No	□Yes □No	Cleaned Litter
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	☑ Yes □No	□Yes □No	
4	Are discharge points and receiving waters free of any sediment deposits?	⊉ Yes □No	☐Yes ☐No	
5	Are storm drain inlets properly protected?	P Yes □No	□Yes □No	
6	Is the construction exit preventing sediment from being tracked into the street?	⊉ Yes □No	□Yes □No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	∠ Yes □No	□Yes □No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	□Yes □No	□Yes □No	

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	⊉ Ýes □No	□Yes □No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	L Yes □No	□Yes □No	
11	Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	PYes □No	☐Yes ☐No	
12	(Other)	□Yes □No	□Yes □No	
			Non-Compl	iance
Des	cribe any incidents of non-c	compliance not de		
		CE	DTIFICATION	or a tremente
			RTIFICATION	
	supervision in accordance the information submitted directly responsible for ga belief, true, accurate, and including the possibility of	e with a system de I. Based on my inc athering the inform complete. I am av of fine and impriso	signed to assure the purity of the personnation, the information are that there are onment for knowing.	
	Print name and title:	JEFF	SPRINCER	STORMWATER SUPERVISOR
	Signature:	y Sous	\supset	Date: 7-21-11

Storm	General Information					
Project Name	HARBOR	VIEW TANK	# 1			
NPDES Tracking No.		Location	HARBAL VIEW DR.			
Date of Inspection	7-21-11	Start/End Time	HARBOL VIEW DR. 1:30 P.M. / 4:00 P.M.			
Inspector's Name(s)						
	JEFF SPRING	ER				
Inspector's Title(s)	STORMWATER	SUPERUISOR				
Inspector's Contact Information	j springer@ o	berdeen wa. a	10J			
Inspector's Qualifications	0,00	O				
CSWPPP Ref #						
Describe present phase of construction						
Type of Inspection: ☐ Regular ☐ Pre-storm event	☐ During storm even	□ Post-storm e	event			
	Weather In					
Has there been a storm event since	the last inspection? Q Y	es L No				
If yes, provide: Storm Start Date & Time: St	orm Duration (hrs):	Approximate	Amount of Precipitation (in):			
Weather at time of this inspection?						
☐ Clear ☐ Cloudy ☐ Rain ☐ Sleet ☐ Fog ☐ Snowing ☐ High Winds ☐ Other: Temperature:						
Have any discharges occurred since the last inspection? The Two If yes, describe:						
Are there any discharges at the tim If yes, describe:	e of inspection? □Yes	9 No				

Site-specific BMPs

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Describe corrective actions initiated, date completed, and note the person that completed the work in the

Corrective Action Log.

		Offective Action			
}	BMP		BMP	BMP	Corrective Action Needed and Notes
	-		Installed?	Maintenance	
1			in the second	Required?	
1			☐Yes ☐No	□Yes □No	
2			☐Yes ☐No	☐Yes ☐No	
3			□Yes □No	□Yes □No	
4			☐Yes ☐No	☐Yes ☐No	
5			☐Yes ☐No	□Yes □No	
6			☐Yes ☐No	☐Yes ☐No	
7			□Yes □No	☐Yes ☐No	
8			☐Yes ☐No	☐Yes ☐No	
9			□Yes □No	☐Yes ☐No	
10			☐Yes ☐No	☐Yes ☐No	
11			☐Yes ☐No	□Yes □No	
12			□Yes □No	□Yes □No	

	BMP	BMP	BMP	Corrective Action Needed and Notes
		Installed?	Maintenance	
			Required?	
13		☐Yes ☐No	□Yes □No	
14		□Yes □No	☐Yes ☐No	
15		□Yes □No	□Yes □No	
16		☐Yes ☐No	☐Yes ☐No	
17		☐Yes ☐No	□Yes □No	
18		□Yes □No	☐Yes ☐No	
19		☐Yes ☐No	☐Yes ☐No	
20		☐Yes ☐No	☐Yes ☐No	

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	☐Yes ☐No	□Yes □No	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	☑Yes □No	□Yes □No	Cleaned Debris & Litter
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	œÝes □No	□Yes □No	
4	Are discharge points and receiving waters free of any sediment deposits?	PYes ONo	□Yes □No	
5	Are storm drain inlets properly protected?	D Yes □No	□Yes □No	
6	Is the construction exit preventing sediment from being tracked into the street?	r es □No	□Yes □No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	□Y es □No	□Yes □No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and	□Yes □No	□Yes □No	NA

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes			
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	Y es □No	□Yes □No				
10	Are materials that are potential stormwater contaminants stored inside or under cover?	P Ýes □No	□Yes □No	••			
11.	Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	☑Yes □No	□Yes □No				
12	(Other)	□Yes □No	□Yes □No				
	<u> </u>		Non-Compl	iance			
Describe any incidents of non-compliance not described above:							
		CE	RTIFICATION S	STATEMENT			
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."							
	Print name and title:	JEFF S	PRINCER	STORMWATER SUPERVISOR			
	Signature:	Jang)		STORMANATER SUPERVISOR Date: 7-21-11			